# Author Index

## Volume 35, January–June 2000


Aalto T, 6
Abassi ZA, 732
Abbenante G, 626
Abe I, 379
Achard J-M, e15
Adachi H, 904
Adeyemo A, 1141
Aizawa T, 800
Alexander MY, 164
Allen JC, 303
Allison KM, 655
Almeida PC, 1278
Alvarez G, 752
Alzamora R, 1099
Amenta F, 775
Amidi M, 231
Anderson BF, 668
Anderson NH, 179
Anderson S, 655
Andrejak M, e15
Antonio Silva J Jr, 409
Aoki M, 237
Appel LJ, 544
Applegate WB, 1025
Apstein CS, 1167
Arakawa K, 55
Armengod ME, 490
Arnett DK, 1032
Aronoff GR, 103
Arranz CT, 1119
Asawa T, 699
Ashino K, 998
Atkinson J, 919, 1105
Ayala DE, 118
Azizi M, 710, 1148, 1226

Bachvarov DR, 1319
Bachvarova M, 1319
Bader M, 409, 587
Baker KM, 1191
Balaszczuk AM, 1119
Ballog R, 1124
Baltatu O, 409
Bandinelli S, 48
Barilli A, 869
Barker DJP, 1301
Barthelmebs M, 602
Barton M, 329
Beaumont FJ, 1055
Becker A, 555
Belch JJF, 746
Bella JN, 6
Bennett FI, 662
Benovic JL, 38
Benter IF, 457
Berger M-M, 648
Bergström G, 965
Bertini A, 48
Best CF, 550
Bettermann H, e6
Biaggioni I, 76, 1124
Bianchi M, e8
Biegelsen ES, 936
Bieringer M, 360
Biggi A, 518
Billington H, 342
Bing OHL, 1203
Bkaily G, 726
Black HR, 1021
Blankenship KA, 103
Boerwinkle E, 1297
Bohlender J, 780, 992
Bohr DF, 1111
Boluyt MO, 1203
Bønaa KH, 1154
Bonner TI, 679
Boomsma F, 892
Booz GW, 1191
Borch-Johnsen K, 898
Bouillier H, 61
Bouloumié A, 43
Bouthillier J, 1319
Boutouyrie P, 1049, 1148
Bowden DW, 135
Bragulat E, 512
Bralet J, 1148
Brandes RP, 231
Brandon S, 1129
Brands MW, 451
Brazzarola P, 113
Brecher P, 914
Bredoux R, 91
Breteler MMB, e16
Breu V, 193, 360, 587
Breyer MD, 1129
Breyer RM, 1129
Brodsky S, 732
Brooks WW, 1203
Brosnan MJ, 164
Brovkovych V, 1111
Brown C, 1291
Brown MJ, 1038, 1291
Brunner H-R, 985
Buikema H, 717
Busjahn A, 555
Busse R, 231
Bussy C, 1049
Butler R, 746

Calzolari M, 518
Cameron JA, 451
Campbell WB, 324, 397
Cannon RO III, 1237
Capdeville-Atkinson C, 1105
Capogrossi MC, 391
Cardillo C, 1237
Carey RM, 155, 1074
Carlson SH, e1, 403, 538
Carmona AK, 1284
Carmona R, 329
Carra N, 518
Carvalho MJ, 892
Casarini DE, 1284
Castaigne A, 1038
Castellano M, 931
Cattaruzza M, 648
Cazaubon C, 602
Cerutti C, 887
Chagas JR, 1278
Challande P, 1049
Chao J, 25
Chao L, 25
Chapman JG, 655
Chappell MC, 348
Charleston J, 544
Chaves FJ, 490
Chiandussi L, 694
Chiang H-T, 1253
Chillon J-M, 1105
Chobanian AV, 858
Chorazyczewski J, 38
Cicha MZ, 373
Clark JS, 164, 179
Claxton CR, 451
Clayton D, 1291
Cleland SJ, 507
Coca A, 512
Cody RJ, 273
Coffman JD, 936
Coffman TM, 550
Colucci WS, 1203
Connell JMC, 507
Connor JM, 952
Conrad CH, 1203
Cooper RS, 490, 1141
Correia AG, 965
Corsini F, 518
Corvazier E, 91
Corvol P, 710, 1226
Cosco C, 580
Costa F, 76, 1124
Cowley AW Jr, 342, 418, 740, 822
Crews JK, 367
Crijns HJGM, 717
Cuccurullo O, 580
Cui X-L, 1160
Culleton B, e10
Cumming AD, 952
Cushman WC, 1025
Cysarz D, e6

Dagher G, 61
Dahlöf B, 6, 13
Danilov SM, 1141
Danser AHJ, 1183
Davidge ST, 1242
Davies DL, 952
Davies MJ, 1009
Davis H, 722
Davis S, 1124
Dawson CB, 103
de Gasparo M, 1074
de Geus EJC, 880
De Jong W, 602
de la Sierra A, 214, 512
de Leeuw PW, 1038
de los Angeles Costa M, 1119
De Mello WC, 1183
de O Prada P, 424
Dean RH, 353
Dean WL, 103
deBlois D, 1069
Dechend R, 193, 360
Degan M, 113
Del Ben GL, 1284
Dell'Omo G, 48, 621
Delva P, 113
Dendorfer A, 32
Der Sarkissian S, 1069
Desplanches D, 919
Devereux RB, 6, 13
Di Bari M, 1025
Di Bello V, 48
Di Gennaro C, 869
Diep QN, 287
Dietz R, 992
Díez J, 1055, 1197
Dimsdale JE, 144
DiPette DJ, 149, 470
Dixon B, 130
Diz DI, 353
Dluhy RG, 668
Dobrian AD, 1009
Dobrucki LW, 1111
Dodt C, 758
Doerr G, 255
Dolnikoff MS, 424
Dominiak P, 32
Dominiczak AF, 164, 179
Doris PA, 958
D'Orléans-Juste P, 726
Doroudi R, 1002
Dostal DE, 1191
Douglas JG, 1160
Drischel K, 685
Dubey RK, 262, 267
Ducher M, 887
Duffy SJ, 936
Dulin NO, 1062
Dumas P, 568
Dumont M, 568
d'Uscio LV, 329

Eberli FR, 1167
Egashira K, 86
Elam M, 758
Elliott HL, 507
Ellison RC, 1032
Ely D, 568
Emanueli C, 391
Engel S, 704
Engeli S, 1270
Enjuto M, 214
Enouf J, 91
Estes A, 457
Etayo JC, 1055, 1197
Eto T, 1210
Evans CTB, 875
Evans RG, 626, 965
Everson SA, 561

Fagard RH, 637
Falcao de Freitas A, 892
Falck JR, 307
Fallo F, 694
Faraci FM, 595
Fasoli E, 518
Fatibene J, 1291
Faulhaber H-D, 555
Fauvel JP, 887
Fehm HL, 758
Feldman RD, 38
Feldt-Rasmussen B, 898
Ferguson SSG, 38
Fernández BE, 1248
Fernández JR, 118
Fernandez L, e15
Ferrario CM, 348, 353
Ferraro F, 1291
Fiebeler A, 193, 360
Fink GD, 464
Fisher NDL, 710
Fitzgerald SM, 451
Fitzgibbon WR, 875
Flanagan DEH, 1301

Fleck E, 255, 978
Forrester TE, 662
Fortuño A, 1055
Fortuño MA, 1055
Fournier A, e15
Foy CJW, 952
Franse LV, 1025
Fraser R, 952
Freedman BI, 135
Freedman RR, 795
Freis ED, 853
Freitas J, 892
Frohlich ED, 1, 537, 693, 853, 1017, 1019, 1177
Fujii K, 379
Fujishima M, 379
Fujita T, 437
Fukuhara M, 353
Fukuo K, 82
Fukuzawa J, 1191
Funakoshi Y, 297
Furukawa LNS, 424

Gabbiani G, 985
Gaber L, 457
Gagel RF, 470
Gallagher PE, 353
Galligan JJ, 464
Gan L-m, 1002
Gangula PRR, 470
Ganten D, 193, 360, 409, 587, 780
Gardner DG, 188
Gardon ML, 202, 209
Garvin JL, 319
Gatti C, 869
Gaudet D, 822
Gauguier D, 179
Gavras H, 609
Gavras I, 609
Geary RL, 353
Geiger J, 397
Gelband CH, 202, 209
Gerbaulet S, 992
Gerdts E, 6
Ghiadoni L, 501
Giacché M, 710
Gillespie DG, 262, 267
Giner V, 512
Girgis R, 795
Gironacci MM, 1248
Giuffredi C, 869
Glazier SS, 353
Gödecke A, 231
Goettsch W, 329
Goetze S, 273
Goldberg DE, 561
Goldberg DS, 202, 209
Gomez MN, 348
Gómez-Angelats E, 214
González Bosc LV, 1119
González D, 214, 512
Goparaju SK, 679
Goto K, 379
Gotoh E, 998
Graf K, 255, 273, 978
Graham D, 179
Granger JP, 367
Gratton J-P, 726
Greene EL, 942
Greenwood JP, 1264
Grekin RJ, 832
Grim CE, 822
Grima M, 602
Grobbee DE, 814
Groop L, 827
Gros C, 1148
Gros R, 38
Gross M, 992
Gross V, 587
Guan YF, 1129
Guefi D, 931
Guo X, 1141
Guski H, 685
Gustin MP, 887
Gutkowska J, 1215

Haeggström JZ, 373
Haller H, 193, 360, 587
Halvorsen B, 1307
Hamet P, 568, 822, 1062, 1069
Hanehira T, 971
Hanke CJ, 324
Haramaki N, 904
Harano Y, 864
Harrap SB, 952
Hattori MA, 1284
Haudenschild CC, 329
Haug E, 1154
Hayashi I, 437
Hayashi S-i, 237
Hayward CS, 574
Haywood JR, 385, 484
He J, 539, 544
He Q, 292
Hecker M, 648
Heimann JC, 424
Heiss G, 1032
Heistad DD, 595
Heitsch H, 908
Hengstenberg C, 704
Henriksen T, 1307
Hense H-W, 704
Hermida RC, 118
Herrington JN, 367
Heusinkveld J, 1124
Higaki J, 237
Hill A, 746
Hill M, 858
Hillen H, 329
Hinojosa-Laborde C, 385, 484
Hoehe MR, 555
Hoeks AP, 637
Hoenig M, 108
Hoffman A, 732
Hofman A, 814
Hökfelt T, 373
Hollenberg NK, 150
Holmer SR, 704
Honing MLH, 1314
Hopfer U, 1160
Hopkins PN, 710
Horio T, 19
Houle S, 1319
Hrafnkelsdóttir T, 1002
Hsueh WA, 273, 978
Huang A, 925
Huang BS, 631
Hulthén UL, 827
Hunt RA, 1191
Hunt SC, 710
Hurwitz S, 668
Hutchinson R, 1297

Ibsen H, 6
Ichihara S, 313
Ichiki K, 904
Ichiki T, 297
Ideishi M, 55
Ikeda H, 904
Ikeda U, 1085, 1232
Imaizumi T, 904
Imamura T, 1210
Imbs J-L, 602
Imig JD, 280, 307
Inagami T, 68, 313
Inamura N, 32, 437
Ingelfinger JR, 800
Ingwall JS, 1167
Inscho EW, 280, 307
Intengan HD, 287, 1221
Iraburu MJ, 1197
Isenović E, 249
Ishii M, 998
Ishizaka N, 800
Ito H, 673
Ito K, 297
Ito S, 413
Ito T, 673
Iwao H, 769
Izumi Y, 769
Izzo JL Jr, 1021

Jackson EK, 262, 267
Jackson RW, 722
Jackson WF, 173
Jacob G, 76
Jaffa AA, 942
Jan C-R, 1253
Jan Danser AH, 764
Járai Z, 679
Jeffs B, 179
Jern S, 13, 1002
Jeschke E, 555
Jeunemaitre X, 710
Jia H, 1291
Jiang B, 914
Johns C, 609
Johnson RJ, 464, e10
Jorde R, 1154
Juliano L, 1278
Juliano MA, 1278
Julius S, 807
Jungersten L, 1002

Kahn AM, 303
Kainer DB, 958
Kaldunski ML, 822
Kamitani A, 952
Kangawa K, 19, 1210
Kano H, 971, 1092
Kaplan GA, 561
Kappert K, 255
Kapuku G, 722
Kario K, 787
Karoor V, 1191
Katakam PVG, 108
Kato J, 1210
Kato K, 673
Kato M, 1173
Katoh A, 904
Katovich MJ, 202, 209
Kawano H, 273
Kawano Y, 273
Keaney JF Jr, 936
Keene K, 202, 209
Keller PJ, 262
Kelley GA, 838
Kelley KS, 838
Kelly PJ, 574
Kelly RP, 574
Keyser B, 758
Khalil RA, 367
Khandekar Z, 457
Kidd GA, 1111
Kieffer P, 919
Kilcoyne CM, 1237
Kim D-y, 231
Kim S, 769
Kimura B, 219
Kimura M, 55
Kimura Y, 864
Kirchengast M, 992
Kitamoto S, 86
Kitamura K, 1210
Kjeldsen SE, 13
Klag MJ, 544
Kliewer W, 496
Klöß S, 43
Kohno M, 971, 1092
Koiwaya Y, 1210
Koller A, 925
Komatsu K, 413
Komers R, 655
Komiya I, 699
Komuro I, 1210
Kopp UC, 373
Kotchen JM, 822
Kotchen TA, 822
Koyanagi M, 86
Kozawa O, 673
Krämer J, 992
Kren V, 225, 568
Krenová D, 568
Krieger JE, 329
Kroon I, 764
Kubo-Inoue M, 86
Kümmell HC, e6
Kunos G, 679
Kurtz TW, 225

Lacolley P, 1049
Lange DL, 385, 484
LaPointe MC, 249, 292
Larrivée J-F, 1319
Larson M, e7
Larson N, 1297
Lartaud-Idjouadiene I, 919
Lattmann T, 329
Laurent S, 1049, 1148
Lauterio TJ, 1009
Lauth M, 648
Laville M, 887
Law RE, 273, 978
Lawrence AJ, 126
LeBlanc EA, 280, 307
Lechi A, 113
Lecomte J-M, 1148
Leenen FHH, 631
Leonardi A, 775
Lever AF, 952
Levy D, e7, e10, 1021
Lew RA, 626
Lezin ES, 225
Li G-H, 555
Li P-L, 397
Liang F, 188
Liao Y, 490
Liebson PR, 6
LIFE Study Group, 13
Lifton RP, 668
Lim CC, 1167
Lima M, 892
Limiñana P, 1105
Linz W, 908
Liu W, 225
Lo W-C, 1253
Loichot C, 602
López B, 1197
Loredo JS, 144

Löwel H, 704
Lu S, 188
Lucini D, 1258
Luft FC, 193, 360, 555, 587, 780
Luke A, 1141
Lüscher TF, 329
Lydick E, 539

Ma G, 948
Machado UF, 424
Mackenbach JP, 814
Madden AC, 965
Madeddu P, 391
Maeda CY, 418, 740
Maeda K, 971
Maeda Y, 1085
Maestri R, 391
Magagna A, 501
Majima M, 437
Majowicz MP, 1119
Makaritsis KP, 609
Mäkimattila S, 1043
Malhotra A, 1203
Malik KU, 457
Malik S, 457
Malinski T, 1111
Mancia G, 614, 1038
Manne V, 457
Marceau F, 1319
Mariani M, 48, 621
Marie C, 1148
Martin V, 91
Marusic ET, 1099
Mary DA, 1264
Mason DP, 948
Massey KD, 832
Massien C, 1226
Masumori-Maemoto S, 998
Masuo K, 1135
Matsuno H, 673
Matsuo H, 19
Matsushita H, 237
Mattson DL, 337, 418
Mayer B, 704
Mazouz H, e15
Mazzolai L, 985
McBride MW, 164
McDougall SJ, 126
McFarlane-Anderson N, 662
Meek MD, 38
Mehra MR, 1258
Melander O, 827
Meldal M, 1278
Melillo E, 621
Melnick JZ, 875
Ménard J, 780
Mensah GA, 722
Mervaala E, 193, 360, 587
Messerli F, 1258
Mi Z, 262
Michaud A, 1226
Michea L, 1099
Mifflin SW, 430
Mikami H, 1135
Milani RV, 1258
Millatt LJ, 643
Miller AW, 108
Miller FJ Jr, 595
Minami M, 971, 1092
Minasi A, 391
Miserey S, 61
Mojón A, 118
Mölle M, 758
Montanari A, 518, 869
Monteith S, 1291
Montesi G, 113
Morawietz H, 329
Morgan JP, 1203
Mori I, 800
Morimoto S, 82
Morishita R, 237
Morris AD, 746
Morrison PJ, 1314
Morrow JD, 476
Motley ED, 313
Muiesan ML, 931
Mukaddam-Daher S, 1215
Mulatero P, 694
Muller DN, 193, 360, 587
Mülsch A, 43, 231
Mulvany MJ, 931
Münter K, 329
Murakami Y, 1085, 1232
Murohara T, 904
Murzenok PP, 631
Muthalif MM, 457

Nagahara T, 998
Nagai R, 800
Nakagami H, 237
Nakamura T, 237
Nakane H, 595
Narkiewicz K, 1173
Navar LG, 1, 537
Negrel R, 1270
Negrin CD, 179
Negrin DC, 164
Neuss M, 978
Nicoud F, 985
Niederhoffer N, 919
Nieto F, e8
Niinobu T, 82
Nisato D, 602
Nishikimi T, 19
Nishimori T, 699
Nishimura M, 443
Niwa M, 673
Novarini A, 518
Numaguchi K, 68, 313
Nussberger J, 985

O'Brien ET, e8
O'Brien T, 324
Ogden LG, 539
Ogihara T, 82, 237, 1135
Ogino M, 437
Ohnaka K, 68
Ohno M, 800
Ohtsuka K, 443
Ohya K-i, 1085
Okamoto MM, 424
Okin PM, 13
Oliveira V, 1278
Oliverio MI, 550
Olivetti G, 391
Oosterga M, 717
Oprisiu R, e15
Oriola J, 512
Orlov SN, 1062
O'Shaughnessy K, 1291
Osmond C, 662, 1301
Osuna A, 752
Oyama TT, 655

Pagani M, 1258
Pahor M, 1025
Palatini P, 614, 807
Palmer CR, 1038
Panza JA, 1237
Papademetriou V, 6
Papp B, 91
Parati G, 614
Paré JC, 214
Parenti A, 1160
Park F, 740
Park J-K, 193, 360, 587
Parmentier J-H, 457
Pascoe L, 694
Pascual JM, 490
Pasini G, 931
Pastori C, 113
Paull JRA, 126
Paultre CZ, 887
Pausová Z, 568
Pedrazzini T, 985
Pedrinelli R, 48, 621
Peña C, 1248
Penno G, 48
Perinotto P, 518
Perks U, 574
Perret C, 61
Perry HM, 853
Persson PB, 685
Perticone F, 580
Pesek CA, 1173
Petrie JR, 507
Pham BT, 280, 307
Phillips BG, 1173
Phillips DIW, 1301
Phillips MI, 219
Piccoli A, 931
Pickering TG, 787
Piering AW, 822
Pilon C, 694
Pinto YM, 717
Pirro NT, 348
Plato CF, 319
Plybon L, 496
Poch E, 214, 512
Pollock DM, 280, 722
Pollock JS, 722
Porcellati C, 580
Porteri E, 931
Pravenec M, 225, 568
Prewitt RL, 1009
Pritchard KA Jr, 324
Profant J, 144
Pruna A, e15

Qi N, 225
Quelin P, 887

Rabbia F, 694
Rabelink TJ, 1314
Rae GA, 726
Raizada MK, 202, 209
Ramadan R, 732
Ramires FJA, 1078
Ranheim T, 1307
Razdan RK, 679
Ré RN, 1, 537, 1189
Reaves PY, 202, 209
Reckelhoff JF, 476, 480
Reddy KM, 307
Redon J, 490
Régrigny O, 1105
Renaud J-F, 61
Reynolds RM, 1301
Rich SS, 135
Riegger GAJ, 704
Rivera F, 214
Rizzoni D, 931
Roberts LJ II, 476
Robertson D, 76
Robinson CJ, 875
Rodriguez-Fermepín M, 1248
Rokkedal J, 6
Roman MJ, 6
Roman RJ, 822
Romero JC, 476
Rose KM, 1032
Rosei EA, 931
Rosenthal M, 555
Rosenthal T, 1038
Rosselli M, 262
Rotimi CN, 1141
Rovira E, 490
Rowe BP, 130
Ruilope LM, 1038

Sabbatini M, 775
Safar M, 61
Sakai N, 673
Sakata N, 55
Salis MB, 391
Salonen JT, 561
Salvetti A, 501
Samain E, 61
Sampieri L, 614
Samuelsson B, 373
San José G, 1055
Sandoya E, e8
Saris JJ, 764
Sasaguri M, 55
Satoh N, 1203
Saupe KW, 1167
Schäfer U, 32
Schalekamp MADH, 764
Schettini C, e8
Schiavone D, 694
Schiffrin EL, 287, 1221
Schillaci G, 580, e15
Schlenzka A, 1043
Schmidt F, 193, 360, 587
Schmidt G, 255
Schmitz-Winnenthal F-H, 231
Schnee J, 273
Schneider A, 1129
Schölkens BA, 908
Schrier RW, 1031
Schroeder AC, 280
Schroll M, 898
Schunkert H, 704
Schuster H, 555
Schwartz J-C, 1148
Schwartz JE, 787
Scott EM, 1264
Seely EW, 668
Seidel CL, 303
Sekihara H, 313
Senra H, e8
Shannon J, 76
Sharma AM, 1270
Sharma P, 1291
Shaw S, 329
Shelton J, 403
Shen L, 219
Sherman DL, 936
Shesely EG, 319
Shimabukuro M, 699
Shimada K, 1085, 1232
Shimizu N, 1191
Shimokawa H, 86
Shimpo M, 1085, 1232
Shrimpton CN, 626
Shue H, 267
Sica DA, 496
Sigurdsson G, 1173
Singh J, e7
Siragy HM, 155, 643, 1074

Sjögren LS, 1002
Skov Jensen J, 898
Small M, 507
Smith AI, 626
Smith LA, 373
Smithies O, 550
Smits P, 1314
Snieder H, 574
Somers VK, 1173
Somes GW, 1025
Sornay M-H, 919
Spector TD, 574
Srivastava K, 476, 480
Staessen JA, e8, 637, 1037
Staff AC, 1307
Stauss HM, 685
Stawowy P, 978
Stewart JM, 32
Stewart KG, 1242
Stoker JB, 1264
Strandgaard S, 898
Struijker Boudier HA, 637
Struthers AD, 746
Study on Ambulatory Monitoring of Blood Pressure Lisinopril Evaluation (SAMPLE) Study Group, 614
Su N, 342
Sugiura T, 679
Suhara T, 82
Sun D, 925
Sun Y, 568, 1078
Sundsfjord J, 1154
Supowit SC, 470
Suzuki M, 864
Sved AF, 413
Swales JD, 1179
Szentiványi M Jr, 418, 740

't Veld AJM, 892
Taddei S, 501
Taguchi J-i, 800
Takahashi H, 443
Takajo Y, 904
Takara M, 699
Takasu N, 699
Takeda K, 297
Takeshita A, 86, 297
Takishita S, 19
Tanabe K, 673
Tanaka S-i, 313
Tang S-S, 800
Taniyama Y, 237
Tashiro T, 55
Taurin S, 1062
Tea B-S, 1069
Testa R, 775
Thame M, 662
Theuer J, 193
Thorin-Trescases N, 1062
Timmermann B, 555
Tomita H, 86
Touyz RM, 1069
Toyoda K, 595
Treiber FA, 722
Tremblay J, 568, 1062
Tseng C-J, 1253
Tsukamoto K, 413
Tsuruda T, 1210
Tsushima M, 864
Tuck ML, 1135
Turner M, 568
Tuttle KR, e10

Ueda S, 998
Uehara Y, 55
Uematsu T, 673
Ujhelyi MR, 108
Ulian L, 614
Ullian ME, 875
Umemura S, 998
Unbehaun A, 685
Uosukainen A, 1043
Urata H, 55
Usui M, 86

Valentini M, 807
Van Bortel LM, 637
van de Mheen H, 814
van den Meiracker AH, 892
van der Heijden-Spek JJ, 637
van Dijk MA, 764
van Doornen LJP, 880
van Geel PP, 717
van Gilst WH, 717
van Rossum CTM, 814
Vanasia A, 614
Varela M, 1197
Vargas F, 752
Varo N, 1197
Vatta M, 1248
Veglio F, 694
Velarde V, 942
Ventura HO, 1258
Verdecchia P, 580, 844, e15
Vescovi PP, 869
Vidal NA, 1119
Villani A, 614
Virdis A, 501
Vita JA, 936
Vitaioli L, 775
Vokó Z, e16
Vollmer A, 832
Voors AA, 717
Vrijkotte TGM, 880
Vuagnat A, 710

Wachtell K, 6
Wagner JA, 679
Walker BR, 1301
Walker GK, 832
Wang H, 202, 209
Wang J-M, 225
Wang L, 679
Wang Z-Q, 155
Wangensteen R, 752
Ward R, 1141
Watt GCM, 952
Watts SW, 244
Westerbacka J, 1043
Westlund KN, 470
Whelton PK, 539, 544
White CR, 403
Whorwood CB, 1301
Widdop RE, 126
Wiemer G, 908
Wilde DW, 832
Wilfert K, 685
Wilks RJ, 662
Williams GH, 710
Wilson DK, 496
Wilson JA, 353
Wimalawansa SJ, 470
Winaver J, 732
Witteman JCM, 814
Wolfrum S, 32
Wollert-Wulf B, 255
Wood PJ, 1301
Wu F, 337
Wyckoff JA, 668
Wyss JM, e1, 403, 538

Yallampalli C, 470
Yamada T, 699
Yamakawa T, 68, 313
Yamakawa Y, 313
Yamamoto K, 237
Yang J, 82
Yang Y, 225
Yasunari K, 971, 1092
Yazaki Y, 1210
Yki-Järvinen H, 1043
Yoshida H, 25
Yoshihara F, 19
Yoshikawa J, 971, 1092
Yoshimura M, 443
Young DB, 948
Yu H, 135

Zalba G, 1055
Zhan Y, 769
Zhang H, 476, 480
Zhang J, 430, 1078
Zhang JJ, 25
Zhang JQ, 1078
Zhang S, 303
Zhang Y, 1129, 1242
Zhang YC, 219
Zhao H, 470
Ziche M, 1160
Zidek V, 225
Zimmer A, 679
Zimmer AM, 679
Zou A-P, 342, 397, 418

# Subject Index

## Volume 35, January–June 2000


A

**Acetylcholine**
Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II–Induced Endothelial Dysfunction, 595

**Acetylcysteine**
*N*-Acetyl-L-Cysteine Potentiates Interleukin-1$\beta$ Induction of Nitric Oxide Synthase: Role of p44/42 Mitogen-Activated Protein Kinases, 914

**AcSDKP**
In Vitro and In Vivo Inhibition of the 2 Active Sites of ACE by Omapatrilat, a Vasopeptidase Inhibitor, 1226

**Adenosine**
$A_{2B}$ Receptors Mediate Antimitogenesis in Vascular Smooth Muscle Cells, 267
Estimation of Skeletal Muscle Interstitial Adenosine During Forearm Dynamic Exercise in Humans, 1124
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262

**Adenosine diphosphate ribose**
Inhibition of cADP-Ribose Formation Produces Vasodilation in Bovine Coronary Arteries, 397

**Adenovirus**
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324

**Adenylyl cyclase**
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38

**Adhesion molecule**
Role of Transforming Growth Factor-$\beta$1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86

**Adipose tissue**
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270

**Adolescents**
Socioeconomic Status and Blood Pressure Reactivity in Healthy Black Adolescents, 496

**Adrenal glands**
Endothelin Enhances and Inhibits Adrenal Catecholamine Release in Deoxycorticosterone Acetate-Salt Hypertensive Rats, 385
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324
Low Birth Weight Predicts Elevated Plasma Cortisol Concentrations in Adults From 3 Populations, 1301

**Adrenergic receptor blocking**
Changes of Nocturnal Blood Pressure Dipping Status in Hypertensives by Nighttime Dosing of $\alpha$-Adrenergic Blocker, Doxazosin: Results from the HALT Study, 787

**Adrenergic receptors**
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38
New $\beta$-Blocker: Prolonged Reduction in High Blood Pressure With $\beta_1$ Antisense Oligodeoxynucleotides, 219
Overweight and Hypertension: A 2-Way Street? 807

**Adrenomedullin**
Enhanced Adrenomedullin Production by Mechanical Stretching in Cultured Rat Cardiomyocytes, 1210

**Afferent renal nerves**
Cyclooxygenase-2 Involved in Stimulation of Renal Mechanosensitive Neurons, 373

**Age**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
Prevalence, Treatment, and Control of Hypertension by Sociodemographic Factors Among the Dutch Elderly, 814

**Aging**
Aging and Chronic Hypertension Decrease Expression of Rat Aortic Soluble Guanylyl Cyclase, 43
Aging Increases PGHS-2–Dependent Vasoconstriction in Rat Mesenteric Arteries, 1242
Effect of Age on Brachial Artery Wall Properties Differs From the Aorta and Is Gender Dependent: A Population Study, 637
Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574

**AHA Council for High Blood Pressure Research**
Proceedings of the Council for High Blood Pressure Research, 1999, 149

**Albuminuria**
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
Microalbuminuria and Pulse Pressure in Hypertensive and Atherosclerotic Men, 48

**Alcoholism**
Sodium Sensitivity of Blood Pressure in Long-Term Detoxified Alcoholics, 869

**Aldosterone**
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
*CYP11B2* Gene Polymorphisms in Idiopathic Hyperaldosteronism, 694
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827
Evaluation of the Aldosterone Synthase (CYP11B2) Gene Polymorphism in Patients With Myocardial Infarction, 704
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113
Lys$^{173}$Arg and −344T/C Variants of *CYP11B2* in Japanese Patients With Low-Renin Hypertension, 699
Regulation of Sodium Balance and Blood Pressure by the $AT_{1A}$ Receptor for Angiotensin II, 550
Role of 11$\beta$-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875

**All-*trans retinoic acid***
Downregulation of Angiotensin II Type 1 Receptor by All-*trans Retinoic Acid* in Vascular Smooth Muscle Cells, 297

**Allopurinol**
Allopurinol Normalizes Endothelial Dysfunction in Type 2 Diabetics With Mild Hypertension, 746

**Amino acid**
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413

**Angiotensin**
Angiotensin-(1-7) Attenuates Vasoconstriction Evoked by Angiotensin II but Not by Noradrenaline in Man, 998
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
Functional Importance of Angiotensin-Converting Enzyme–Dependent In Situ Angiotensin II Generation in the Human Forearm, 764

High- or Low-Salt Diet From Weaning to Adulthood: Effect on Insulin Sensitivity in Wistar Rats, 424
A Novel Stable Inhibitor of Endopeptidases EC 3.4.24.15 and 3.4.24.16 Potentiates Bradykinin-Induced Hypotension, 626
Release of Angiotensin-(1-7) From the Rat Hindlimb: Influence of Angiotensin-Converting Enzyme Inhibition, 348
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992

**Angiotensin antagonist**
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Effect of the Angiotensin II Type 1 Receptor Blocker Candesartan on Endothelial Function in Patients With Essential Hypertension, 501

**Angiotensin-converting enzyme**
Angiotensin-Converting Enzyme Expression in Human Carotid Artery Atherosclerosis, 353
Angiotensin I–Converting Enzyme Isoforms (High and Low Molecular Weight) in Urine of Premature and Full-Term Infants, 1284
Antihypertensive Effects of Fasidotril, a Dual Inhibitor of Neprilysin and Angiotensin-Converting Enzyme, in Rats and Humans, 1148
Gender Differences in Development of Hypertension in Spontaneously Hypertensive Rats: Role of the Renin-Angiotensin System, 480
Heritability of Angiotensin-Converting Enzyme and Angiotensinogen: A Comparison of US Blacks and Nigerians, 1141
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
In Vitro and In Vivo Inhibition of the 2 Active Sites of ACE by Omapatrilat, a Vasopeptidase Inhibitor, 1226
Increased Chymase Activity in Internal Thoracic Artery of Patients With Hypercholesterolemia, 55
Influence of the *I/D* Polymorphism of the Angiotensin-Converting Enzyme Gene on the Outcome of Microalbuminuria in Essential Hypertension, 490
Long-Term Angiotensin II Type 1 Receptor Blockade With Fonsartan Doubles Lifespan of Hypertensive Rats, 908
A Novel Stable Inhibitor of Endopeptidases EC 3.4.24.15 and 3.4.24.16 Potentiates Bradykinin-Induced Hypotension, 626
Potentiation of the Vascular Response to Kinins by Inhibition of Myocardial Kininases, 32
Release of Angiotensin-(1-7) From the Rat Hindlimb: Influence of Angiotensin-Converting Enzyme Inhibition, 348
Renin-Angiotensin System Genetic Polymorphisms and Salt Sensitivity in Essential Hypertension, 512
Subpressor Doses of Angiotensin II Increase Plasma $F_2$-Isoprostanes in Rats, 476
Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221

**Angiotensin-converting enzyme inhibitors**
Amlodipine, Enalapril, and Dependent Leg Edema in Essential Hypertension, 621
Antihypertensive Effects of Fasidotril, a Dual Inhibitor of Neprilysin and Angiotensin-Converting Enzyme, in Rats and Humans, 1148
Functional Importance of Angiotensin-Converting Enzyme–Dependent In Situ Angiotensin II Generation in the Human Forearm, 764
In Vitro and In Vivo Inhibition of the 2 Active Sites of ACE by Omapatrilat, a Vasopeptidase Inhibitor, 1226
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985

**Angiotensin I**
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985

**Angiotensin II**
Activation of MAPKs in Proximal Tubule Cells From Spontaneously Hypertensive and Control Wistar-Kyoto Rats, 1160
Angiotensin-(1-7) Attenuates Vasoconstriction Evoked by Angiotensin II but Not by Noradrenaline in Man, 998
Angiotensin II and $\alpha_v\beta_3$ Integrin Expression in Rat Neonatal Cardiac Fibroblasts, 978
Angiotensin II and PDGF-BB Stimulate $\beta_1$-Integrin–Mediated Adhesion and Spreading in Human VSMCs, 255
Angiotensin II Enhances Integrin and $\alpha$-Actinin Expression in Adult Rat Cardiac Fibroblasts, 273
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587
The Brain Renin-Angiotensin System Modulates Angiotensin II–Induced Hypertension and Cardiac Hypertrophy, 409
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
Elevated Sympathetic Activity Contributes to Hypertension and Salt Sensitivity in Diabetic Obese Zucker Rats, 403
Enhanced Adrenomedullin Production by Mechanical Stretching in Cultured Rat Cardiomyocytes, 1210
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II–Induced Endothelial Dysfunction, 595
Heme Oxygenase-1 Is Upregulated in the Kidney of Angiotensin II–Induced Hypertensive Rats: Possible Role in Renoprotection, 800
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985
Increased Chymase Activity in Internal Thoracic Artery of Patients With Hypercholesterolemia, 55
Induction of Cyclooxygenase-2 by Angiotensin II in Cultured Rat Vascular Smooth Muscle Cells, 68
Involvement of Rho-Kinase in Angiotensin II–Induced Hypertrophy of Rat Vascular Smooth Muscle Cells, 313
Local Angiotensin II and Transforming Growth Factor-$\beta$1 in Renal Fibrosis of Rats, 1078
Long-Term Angiotensin II Type 1 Receptor Blockade With Fonsartan Doubles Lifespan of Hypertensive Rats, 908
NF-$\kappa$B Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270
Proapoptotic and Growth-Inhibitory Role of Angiotensin II Type 2 Receptor in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats In Vivo, 1069
Renin-Angiotensin System Genetic Polymorphisms and Salt Sensitivity in Essential Hypertension, 512
Role of the Angiotensin Type 2 Receptor in the Regulation of Blood Pressure and Renal Function, 155
Role of Transforming Growth Factor-$\beta$1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86

**Angiotensin III**
Angiotensin III Depressor Action in the Conscious Rabbit Is Blocked by Losartan but not PD 123319, 130

**Angiotensinogen**
Angiotensinogen Concentrations and Renin Clearance: Implications for Blood Pressure Regulation, 780
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189
Heritability of Angiotensin-Converting Enzyme and Angiotensinogen: A Comparison of US Blacks and Nigerians, 1141

**Antihypertensive agents**
Attenuation of the "White-Coat Effect" by Antihypertensive Treatment and Regression of Target Organ Damage, 614
Chronic $I_1$-Imidazoline Agonism: Sympathetic Mechanisms in Hypertension, 1264

**Antihypertensive therapy**
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038
**Antisense**
New β-Blocker: Prolonged Reduction in High Blood Pressure With $\beta_1$ Antisense Oligodeoxynucleotides, 219
**Aorta**
Aging and Chronic Hypertension Decrease Expression of Rat Aortic Soluble Guanylyl Cyclase, 43
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
Effect of Age on Brachial Artery Wall Properties Differs From the Aorta and Is Gender Dependent: A Population Study, 637
Insulin-Induced Decrease in Large Artery Stiffness Is Impaired in Uncomplicated Type 1 Diabetes Mellitus, 1043
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
p38 MAP Kinase Is Required for Vasopressin-Stimulated HSP27 Induction in Aortic Smooth Muscle Cells, 673
Physical Exercise, Aortic Blood Pressure, and Aortic Wall Elasticity and Composition in Rats, 919
**Apnea**
Chromosome Mapping Effect of Continuous Positive Airway Pressure on Blood Pressure: A Placebo Trial, 144
**Apoptosis**
Cyclic AMP Inhibited Proliferation of Human Aortic Vascular Smooth Muscle Cells, Accompanied by Induction of p53 and p21, 237
Inversion of the Intracellular $Na^+/K^+$ Ratio Blocks Apoptosis in Vascular Smooth Muscle Cells by Induction of RNA Synthesis, 1062
**Arachidonic acids**
Role of $Ca^{2+}$-Independent Phospholipase $A_2$ in the Regulation of Inducible Nitric Oxide Synthase in Cardiac Myocytes, 249
**Arginine**
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
**Arrhythmia**
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25
**Arterial mechanics**
Study of Arterial and Autonomic Effects of Cyclosporine in Humans, 1258
**Arterial pressure**
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
**Arterial stiffness**
Intrinsic Stiffness of the Carotid Arterial Wall Material in Essential Hypertensives, 1049
**Arteries**
5-Hydroxytryptamine–Induced Potentiation of Endothelin-1– and Norepinephrine-Induced Contraction Is Mitogen-Activated Protein Kinase Pathway Dependent, 244
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
Decreased Endothelium-Dependent Vascular Relaxation During Reduction of Uterine Perfusion Pressure in Pregnant Rat, 367
Effect of Age on Brachial Artery Wall Properties Differs From the Aorta and Is Gender Dependent: A Population Study, 637
Inhibition of cADP-Ribose Formation Produces Vasodilation in Bovine Coronary Arteries, 397
Inhibition of Vascular Smooth Muscle Cell Migration by Elevation of Extracellular Potassium Concentration, 948
Insulin-Induced Decrease in Large Artery Stiffness Is Impaired in Uncomplicated Type 1 Diabetes Mellitus, 1043
Intrinsic Stiffness of the Carotid Arterial Wall Material in Essential Hypertensives, 1049
**Arterioles**
Angiotensin I–Converting Enzyme Antisense Prevents Altered Renal Vascular Reactivity, but Not High Blood Pressure, in Spontaneously Hypertensive Rats, 209
Effect of Calcium Antagonists on Glomerular Arterioles in Spontaneously Hypertensive Rats, 775
Ion Channels and Vascular Tone, 173
**Ascorbic acid**
Pharmacological Concentrations of Ascorbic Acid Are Required for the Beneficial Effect on Endothelial Vasomotor Function in Hypertension, 936
**Aspirin**
Effects of Aspirin-Like Drugs on Nitric Oxide Synthesis in Rat Vascular Smooth Muscle Cells, 1085
**Atherosclerosis**
Aldose Reductase Inhibitor Improves Insulin-Mediated Glucose Uptake and Prevents Migration of Human Coronary Artery Smooth Muscle Cells Induced by High Glucose, 1092
Arterial Hypertension, Microalbuminuria and Risk of Ischemic Heart Disease, 898
Cyclic AMP Inhibited Proliferation of Human Aortic Vascular Smooth Muscle Cells, Accompanied by Induction of p53 and p21, 237
Effects of Aspirin-Like Drugs on Nitric Oxide Synthesis in Rat Vascular Smooth Muscle Cells, 1085
Increased Chymase Activity in Internal Thoracic Artery of Patients With Hypercholesterolemia, 55
Inhibition of Vascular Smooth Muscle Cell Migration by Elevation of Extracellular Potassium Concentration, 948
Peroxisome Proliferator–Activated Receptor-γ Ligands Inhibit Nitric Oxide Synthesis in Vascular Smooth Muscle Cells, 1232
**Atherothrombosis**
Platelet-Derived Nitric Oxide and Coronary Risk Factors, 904
**Atrial natriuretic factor**
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971
**Atrial natriuretic peptide**
The Brain Renin-Angiotensin System Modulates Angiotensin II–Induced Hypertension and Cardiac Hypertrophy, 409
Inhibitory Regulation of Hypertrophy by Endogenous Atrial Natriuretic Peptide in Cultured Cardiac Myocytes, 19
**Augmentation index**
Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574
**Autocrine-paracrine**
Inhibitory Regulation of Hypertrophy by Endogenous Atrial Natriuretic Peptide in Cultured Cardiac Myocytes, 19
**Autonomic nervous system**
Dissociation Between Neural and Vascular Responses to Sympathetic Stimulation: Contribution of Local Adrenergic Receptor Function, 76
Study of Arterial and Autonomic Effects of Cyclosporine in Humans, 1258
**Autoregulation**
Effect of Lovastatin on Cerebral Circulation in Spontaneously Hypertensive Rats, 1105

## B

**Baroreflex**
Mental Stress–Induced Increase in Blood Pressure Is Not Related to Baroreflex Sensitivity in Middle-Aged Healthy Men, 887
Modulatory Effects of Carbon Monoxide on Baroreflex Activation in Nucleus Tractus Solitarii of Rats, 1253
Study of Arterial and Autonomic Effects of Cyclosporine in Humans, 1258
**Blacks**
Effects of Menstrual Cycle and Race on Peripheral Vascular α-Adrenergic Responsiveness, 795
Heritability of Angiotensin-Converting Enzyme and Angiotensinogen: A Comparison of US Blacks and Nigerians, 1141

Human Na+/H+ Exchanger Genes: Identification of Polymorphisms by Radiation Hybrid Mapping and Analysis of Linkage in End-Stage Renal Disease, 135
Lack of Association of 3 Functional Gene Variants With Hypertension in African Americans, 1297
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722

**Blood flow**
Amlodipine, Enalapril, and Dependent Leg Edema in Essential Hypertension, 621
Effects of Menstrual Cycle and Race on Peripheral Vascular α-Adrenergic Responsiveness, 795
Functional Importance of Angiotensin-Converting Enzyme–Dependent In Situ Angiotensin II Generation in the Human Forearm, 764
Insulin-Induced Decrease in Large Artery Stiffness Is Impaired in Uncomplicated Type 1 Diabetes Mellitus, 1043
Interactions Between Nitric Oxide and Endothelin in the Regulation of Vascular Tone of Human Resistance Vessels In Vivo, 1237

**Blood flow velocity**
Angiotensin-(1-7) Attenuates Vasoconstriction Evoked by Angiotensin II but Not by Noradrenaline in Man, 998

**Blood pressure**
β-2 Adrenergic Receptor Gene Variations, Blood Pressure, and Heart Size in Normal Twins, 555
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
Angiotensin III Depressor Action in the Conscious Rabbit Is Blocked by Losartan but not PD 123319, 130
Angiotensinogen Concentrations and Renin Clearance: Implications for Blood Pressure Regulation, 780
Association of Insulin Resistance With Salt Sensitivity and Nocturnal Fall of Blood Pressure, 864
Attenuation of the "White-Coat Effect" by Antihypertensive Treatment and Regression of Target Organ Damage, 614
Blood Pressure Is Related to Placental Volume and Birth Weight, 662
Characterization of Murine Vasopressor and Vasodepressor Prostaglandin $E_2$ Receptors, 1129
Chromosome Mapping Effect of Continuous Positive Airway Pressure on Blood Pressure: A Placebo Trial, 144
Chronic $I_1$-Imidazoline Agonism: Sympathetic Mechanisms in Hypertension, 1264
Cyclophilin B Expression in Renal Proximal Tubules of Hypertensive Rats, 958
Decreased Endothelium-Dependent Vascular Relaxation During Reduction of Uterine Perfusion Pressure in Pregnant Rat, 367
Department of Veterans Affairs Hypertension Meeting: A Proposal for Improved Care, 853
Diurnal Blood Pressure Variation in Progressive Autonomic Failure, 892
Effect of Obesity on Electrocardiographic Left Ventricular Hypertrophy in Hypertensive Patients: The Losartan Intervention For Endpoint (LIFE) Reduction in Hypertension Study, 13
Effects of Systemic Inhibition of Neuronal Nitric Oxide Synthase in Diabetic Rats, 655
Expression and Actions of Heme Oxygenase in the Renal Medulla of Rats, 342
Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668
Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574
Importance of Systolic Blood Pressure in Older Americans, 1021
Increased Blood Pressure in α-Calcitonin Gene–Related Peptide/Calcitonin Gene Knockout Mice, 470
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985
Inhibition of Nitric Oxide Synthesis Potentiates Hypertension During Chronic Glucose Infusion in Rats, 451
Insulin-Induced Decrease in Large Artery Stiffness Is Impaired in Uncomplicated Type 1 Diabetes Mellitus, 1043
Lack of Association of 3 Functional Gene Variants With Hypertension in African Americans, 1297
Long-Term Absolute Benefit of Lowering Blood Pressure in Hypertensive Patients According to the JNC VI Risk Stratification, 539
Long-Term Effects of Weight Loss and Dietary Sodium Reduction on Incidence of Hypertension, 544
Low Birth Weight Predicts Elevated Plasma Cortisol Concentrations in Adults From 3 Populations, 1301
Mental Stress–Induced Increase in Blood Pressure Is Not Related to Baroreflex Sensitivity in Middle-Aged Healthy Men, 887
Metformin Improves Vascular Function in Insulin-Resistant Rats, 108
National Heart, Lung, and Blood Institute Workshop on Sodium and Blood Pressure: A Critical Review of Current Scientific Evidence, 858
New β-Blocker: Prolonged Reduction in High Blood Pressure With $\beta_1$ Antisense Oligodeoxynucleotides, 219
A Nonpeptide Mimic of Bradykinin Blunts the Development of Hypertension in Young Spontaneously Hypertensive Rats, 437
Progressive Resistance Exercise and Resting Blood Pressure: A Meta-Analysis of Randomized Controlled Trials, 838
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722
Relation Between Low Calcium Intake, Parathyroid Hormone, and Blood Pressure, 1154
Reproducibility of the Hyperbaric Index as a Measure of Blood Pressure Excess, 118
Role of the Angiotensin Type 2 Receptor in the Regulation of Blood Pressure and Renal Function, 155
Sodium Sensitivity of Blood Pressure in Long-Term Detoxified Alcoholics, 869
Subpressor Doses of Angiotensin II Increase Plasma $F_2$-Isoprostanes in Rats, 476

**Blood pressure determination**
Editorial Commentary: Blood Pressure–Measuring Devices: Time to Open Pandora's Box and Regulate, 1037
Skip Patterns in DINAMAP-Measured Blood Pressure in 3 Epidemiological Studies, 1032

**Blood pressure monitoring**
Changes of Nocturnal Blood Pressure Dipping Status in Hypertensives by Nighttime Dosing of α-Adrenergic Blocker, Doxazosin: Results from the HALT Study, 787
Editorial Commentary: Blood Pressure–Measuring Devices: Time to Open Pandora's Box and Regulate, 1037
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844
Skip Patterns in DINAMAP-Measured Blood Pressure in 3 Epidemiological Studies, 1032

**Blood pressure monitoring, ambulatory**
Chromosome Mapping Effect of Continuous Positive Airway Pressure on Blood Pressure: A Placebo Trial, 144
Effects of Work Stress on Ambulatory Blood Pressure, Heart Rate and Heart Rate Variability, 880
Glomerular Hyperfiltration in Hypertensive African Americans, 822
Renin-Angiotensin System Genetic Polymorphisms and Salt Sensitivity in Essential Hypertension, 512

**Body mass index**
Weight Gain–Induced Blood Pressure Elevation, 1135

**Body weight**
Blood Pressure Is Related to Placental Volume and Birth Weight, 662

**Book Reviews**
*Hypertension* Online Only, April 2000, 1017

**BQ-123**
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518

**Bradycardia**
Modulatory Effects of Carbon Monoxide on Baroreflex Activation in Nucleus Tractus Solitarii of Rats, 1253

**Bradykinin**
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
Angiotensin Type 2 Receptor Mediates Valsartan-Induced Hypotension in Conscious Rats, 1074
Antagonist-Induced Intracellular Sequestration of Rabbit Bradykinin $B_2$ Receptor, 1319
Bradykinin-Induced Vasodilation of Human Forearm Resistance Vessels Is Primarily Mediated by Endothelium-Dependent Hyperpolarization, 1314
A Nonpeptide Mimic of Bradykinin Blunts the Development of Hypertension in Young Spontaneously Hypertensive Rats, 437

A Novel Stable Inhibitor of Endopeptidases EC 3.4.24.15 and 3.4.24.16 Potentiates Bradykinin-Induced Hypotension, 626
Potentiation of the Vascular Response to Kinins by Inhibition of Myocardial Kininases, 32
Role of Reactive Oxygen Species in Bradykinin-Induced Mitogen-Activated Protein Kinase and c-*fos* Induction in Vascular Cells, 942

**Brain**
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413
Modulatory Effects of Carbon Monoxide on Baroreflex Activation in Nucleus Tractus Solitarii of Rats, 1253
Role of FMRFamide-Activated Brain Sodium Channel in Salt-Sensitive Hypertension, 443

C

**$Ca^{2+}$-transporting ATPase**
Tyrosine Phosphorylation of Human Platelet Plasma Membrane $Ca^{2+}$-ATPase in Hypertension, 103

**$Ca^{2+}$ATPases**
Platelet $Ca^{2+}$ATPases: A Plural, Species-Specific, and Multiple Hypertension-Regulated Expression System, 91

**Calcineurin**
Interleukin-1$\beta$ Regulates the Human Brain Natriuretic Peptide Promoter via $Ca^{2+}$-Dependent Protein Kinase Pathways, 292

**Calcium**
Altered Inotropic Responsiveness and Gene Expression of Hypertrophied Myocardium With Captopril, 1203
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Endothelin-Mediated Calcium Signaling in Preglomerular Smooth Muscle Cells, 280
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832
Interleukin-1$\beta$ Regulates the Human Brain Natriuretic Peptide Promoter via $Ca^{2+}$-Dependent Protein Kinase Pathways, 292
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113
Physical Exercise, Aortic Blood Pressure, and Aortic Wall Elasticity and Composition in Rats, 919
Platelet $Ca^{2+}$ATPases: A Plural, Species-Specific, and Multiple Hypertension-Regulated Expression System, 91
Relation Between Low Calcium Intake, Parathyroid Hormone, and Blood Pressure, 1154
Tyrosine Phosphorylation of Human Platelet Plasma Membrane $Ca^{2+}$-ATPase in Hypertension, 103

**Calcium antagonists**
Amlodipine, Enalapril, and Dependent Leg Edema in Essential Hypertension, 621
Effect of Calcium Antagonists on Glomerular Arterioles in Spontaneously Hypertensive Rats, 775
Pranidipine Enhances the Action of Nitric Oxide Released From Endothelial Cells, 82

**Calcium channel blockers**
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038

**Calcium channels**
Angiotensin I–Converting Enzyme Antisense Prevents Altered Renal Vascular Reactivity, but Not High Blood Pressure, in Spontaneously Hypertensive Rats, 209
Inhibition of cADP-Ribose Formation Produces Vasodilation in Bovine Coronary Arteries, 397
Ion Channels and Vascular Tone, 173

**Cannabinoid**
Cardiovascular Effects of 2-Arachidonoyl Glycerol in Anesthetized Mice, 679

**Captopril**
High- or Low-Salt Diet From Weaning to Adulthood: Effect on Insulin Sensitivity in Wistar Rats, 424

**Cardiac function**
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189
Evaluation of the Aldosterone Synthase (CYP11B2) Gene Polymorphism in Patients With Myocardial Infarction, 704

**Cardiac hypertrophy**
Angiotensin I–Converting Enzyme Antisense Gene Therapy Causes Permanent Antihypertensive Effects in the SHR, 202

**Cardiac myocyte**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191

**Cardiac output**
Vascular Response to Angiotensin II in Atherosclerosis: Role of the Baroreflex, 685

**Cardiovascular diseases**
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038
Long-Term Absolute Benefit of Lowering Blood Pressure in Hypertensive Patients According to the JNC VI Risk Stratification, 539
National Heart, Lung, and Blood Institute Workshop on Sodium and Blood Pressure: A Critical Review of Current Scientific Evidence, 858

**Cardiovascular reactivity**
Socioeconomic Status and Blood Pressure Reactivity in Healthy Black Adolescents, 496

**Carotid arteries**
Angiotensin-Converting Enzyme Expression in Human Carotid Artery Atherosclerosis, 353
Elevated Perfusion Pressure Upregulates Endothelin-1 and Endothelin B Receptor Expression in the Rabbit Carotid Artery, 648
Elevated Sympathetic Activity Contributes to Hypertension and Salt Sensitivity in Diabetic Obese Zucker Rats, 403
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329

**Catecholamines**
Effects of Sleep Deprivation on Neural Circulatory Control, 1173
Endothelin Enhances and Inhibits Adrenal Catecholamine Release in Deoxycorticosterone Acetate-Salt Hypertensive Rats, 385

**Cathepsin B**
Hydrolysis by Cathepsin B of Fluorescent Peptides Derived From Human Prorenin, 1278

**Cell adhesion molecules**
NF-$\kappa$B Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193

**Cell proliferation**
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587

**Cholesterol**
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
Vascular Response to Angiotensin II in Atherosclerosis: Role of the Baroreflex, 685

**Chromatography**
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832

**Circadian rhythm**
Changes of Nocturnal Blood Pressure Dipping Status in Hypertensives by Nighttime Dosing of $\alpha$-Adrenergic Blocker, Doxazosin: Results from the HALT Study, 787
Diurnal Blood Pressure Variation in Progressive Autonomic Failure, 892
Elevated Sympathetic Activity Contributes to Hypertension and Salt Sensitivity in Diabetic Obese Zucker Rats, 403

**Circulation**
A Novel Stable Inhibitor of Endopeptidases EC 3.4.24.15 and 3.4.24.16 Potentiates Bradykinin-Induced Hypotension, 626
**Clinical advisory statement**
Importance of Systolic Blood Pressure in Older Americans, 1021
**Clinical trials**
Hypokalemia Associated With Diuretic Use and Cardiovascular Events in the Systolic Hypertension in the Elderly Program, 1025
**Collagen**
The Brain Renin-Angiotensin System Modulates Angiotensin II–Induced Hypertension and Cardiac Hypertrophy, 409
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
**Collagenases**
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
**Commentaries**
e-Hypertension: Opening New Vistas, 538
**Community health services**
Editorial Commentary: Hypertension in the Political Arena, 1179
**Compliance**
Effect of Age on Brachial Artery Wall Properties Differs From the Aorta and Is Gender Dependent: A Population Study, 637
**Compliance, arterial**
Study of Arterial and Autonomic Effects of Cyclosporine in Humans, 1258
**Cortisol**
Low Birth Weight Predicts Elevated Plasma Cortisol Concentrations in Adults From 3 Populations, 1301
Role of 11$\beta$-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099
**Cyclic AMP**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Cyclic AMP Inhibited Proliferation of Human Aortic Vascular Smooth Muscle Cells, Accompanied by Induction of p53 and p21, 237
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38
Insulin Inhibits Migration of Vascular Smooth Muscle Cells With Inducible Nitric Oxide Synthase, 303
**Cyclic GMP**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Angiotensin Type 2 Receptor Mediates Valsartan-Induced Hypotension in Conscious Rats, 1074
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
**Cyclooxygenase**
Cyclooxygenase-2 Involved in Stimulation of Renal Mechanosensitive Neurons, 373
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307
Effects of Aspirin-Like Drugs on Nitric Oxide Synthesis in Rat Vascular Smooth Muscle Cells, 1085
Induction of Cyclooxygenase-2 by Angiotensin II in Cultured Rat Vascular Smooth Muscle Cells, 68
**Cyclosporine A**
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
**Cytochrome P450**
Contribution of Ras GTPase/MAP Kinase and Cytochrome P450 Metabolites to Deoxycorticosterone-Salt–Induced Hypertension, 457
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307
$Lys^{173}Arg$ and −344T/C Variants of *CYP11B2* in Japanese Patients With Low-Renin Hypertension, 699
**Cytosolic calcium**
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307

D

**Deoxycorticosterone**
Contribution of Ras GTPase/MAP Kinase and Cytochrome P450 Metabolites to Deoxycorticosterone-Salt–Induced Hypertension, 457
Endothelin Enhances and Inhibits Adrenal Catecholamine Release in Deoxycorticosterone Acetate-Salt Hypertensive Rats, 385
Interaction Between Nitric Oxide and Mineralocorticoids in the Long-Term Control of Blood Pressure, 752
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875
**Depression**
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561
**Desoxycorticosterone**
Mechanisms of Increased Venous Smooth Muscle Tone in Desoxycorticosterone Acetate-Salt Hypertension, 464
**Diabetes mellitus**
Allopurinol Normalizes Endothelial Dysfunction in Type 2 Diabetics With Mild Hypertension, 746
Effects of Systemic Inhibition of Neuronal Nitric Oxide Synthase in Diabetic Rats, 655
Elevated Sympathetic Activity Contributes to Hypertension and Salt Sensitivity in Diabetic Obese Zucker Rats, 403
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507
**Diet**
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
**Diet, sodium-restricted**
Long-Term Effects of Weight Loss and Dietary Sodium Reduction on Incidence of Hypertension, 544
**Diuretics**
Department of Veterans Affairs Hypertension Meeting: A Proposal for Improved Care, 853
Editorial Commentary: Diuretic Treatment of Systolic Hypertension in the Elderly, 1031
Hypokalemia Associated With Diuretic Use and Cardiovascular Events in the Systolic Hypertension in the Elderly Program, 1025
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732
**Drug therapy**
Department of Veterans Affairs Hypertension Meeting: A Proposal for Improved Care, 853

E

**Echocardiography**
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
Evaluation of the Aldosterone Synthase (CYP11B2) Gene Polymorphism in Patients With Myocardial Infarction, 704
Impact of Different Partition Values on Prevalences of Left Ventricular Hypertrophy and Concentric Geometry in a Large Hypertensive Population: The LIFE Study, 6
**Editorials**
Annual Progress Report and Our Thanks to Referees: 1999, 1
Editorial Commentary: Hypertension in the Political Arena, 1179
Online-Only or Print? An Urgent Request to Readers and Authors, 537
Recognition of Systolic Hypertension for Hypertension, 1019

Research Means "Look Back", 693
State of Hypertension as We Enter the 21st Century: A Societal Conundrum, 1177
**Education**
Socioeconomic Status and Blood Pressure Reactivity in Healthy Black Adolescents, 496
**Elastic modulus**
Intrinsic Stiffness of the Carotid Arterial Wall Material in Essential Hypertensives, 1049
**Elasticity**
Physical Exercise, Aortic Blood Pressure, and Aortic Wall Elasticity and Composition in Rats, 919
**Elderly**
Editorial Commentary: Diuretic Treatment of Systolic Hypertension in the Elderly, 1031
Importance of Systolic Blood Pressure in Older Americans, 1021
**Electrocardiography**
Effect of Obesity on Electrocardiographic Left Ventricular Hypertrophy in Hypertensive Patients: The Losartan Intervention For Endpoint (LIFE) Reduction in Hypertension Study, 13
Impact of Different Partition Values on Prevalences of Left Ventricular Hypertrophy and Concentric Geometry in a Large Hypertensive Population: The LIFE Study, 6
**Electrolytes**
Glomerular Hyperfiltration, High Renin, and Low-Extracellular Volume in High Blood Pressure, 952
**Electrophysiology**
Integration of Aortic Nerve Inputs in Hypertensive Rats, 430
**Enalapril**
Proapoptotic and Growth-Inhibitory Role of Angiotensin II Type 2 Receptor in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats In Vivo, 1069
**Endopeptidase inhibition**
A Novel Stable Inhibitor of Endopeptidases EC 3.4.24.15 and 3.4.24.16 Potentiates Bradykinin-Induced Hypotension, 626
**Endothelin**
5-Hydroxytryptamine–Induced Potentiation of Endothelin-1– and Norepinephrine-Induced Contraction Is Mitogen-Activated Protein Kinase Pathway Dependent, 244
Effect of the Angiotensin II Type 1 Receptor Blocker Candesartan on Endothelial Function in Patients With Essential Hypertension, 501
Elevated Perfusion Pressure Upregulates Endothelin-1 and Endothelin B Receptor Expression in the Rabbit Carotid Artery, 648
Endothelin-1 Attenuates ω3 Fatty Acid–Induced Apoptosis by Inhibition of Caspase 3, 287
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
Endothelin-Dependent and -Independent Components of Strain-Activated Brain Natriuretic Peptide Gene Transcription Require Extracellular Signal Regulated Kinase and p38 Mitogen-Activated Protein Kinase, 188
Endothelin Enhances and Inhibits Adrenal Catecholamine Release in Deoxycorticosterone Acetate-Salt Hypertensive Rats, 385
Endothelin-Mediated Calcium Signaling in Preglomerular Smooth Muscle Cells, 280
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
Interaction Between Nitric Oxide and Mineralocorticoids in the Long-Term Control of Blood Pressure, 752
Interactions Between Nitric Oxide and Endothelin in the Regulation of Vascular Tone of Human Resistance Vessels In Vivo, 1237
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732
Mechanisms of Increased Venous Smooth Muscle Tone in Desoxycorticosterone Acetate-Salt Hypertension, 464
Pranidipine Enhances the Action of Nitric Oxide Released From Endothelial Cells, 82
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992
**Endothelin-1**
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307
**Endothelin-converting enzyme**
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
**Endothelium**
Aging Increases PGHS-2–Dependent Vasoconstriction in Rat Mesenteric Arteries, 1242
Allopurinol Normalizes Endothelial Dysfunction in Type 2 Diabetics With Mild Hypertension, 746
Decreased Endothelium-Dependent Vascular Relaxation During Reduction of Uterine Perfusion Pressure in Pregnant Rat, 367
Effect of the Angiotensin II Type 1 Receptor Blocker Candesartan on Endothelial Function in Patients With Essential Hypertension, 501
Elevated Intraluminal Pressure Inhibits Vascular Tissue Plasminogen Activator Secretion and Downregulates Its Gene Expression, 1002
Genes and Hypertension: From Gene Mapping in Experimental Models to Vascular Gene Transfer Strategies, 164
Inhibition of Nitric Oxide Synthesis Potentiates Hypertension During Chronic Glucose Infusion in Rats, 451
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
Pharmacological Concentrations of Ascorbic Acid Are Required for the Beneficial Effect on Endothelial Vasomotor Function in Hypertension, 936
Vascular NADH/NADPH Oxidase Is Involved in Enhanced Superoxide Production in Spontaneously Hypertensive Rats, 1055
**Endothelium-derived factor**
Role of Transforming Growth Factor-β1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86
**Endothelium-derived relaxing factor**
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
**Environment**
Heritability of Angiotensin-Converting Enzyme and Angiotensinogen: A Comparison of US Blacks and Nigerians, 1141
**Enzymes**
Antihypertensive Effects of Fasidotril, a Dual Inhibitor of Neprilysin and Angiotensin-Converting Enzyme, in Rats and Humans, 1148
Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II–Induced Endothelial Dysfunction, 595
**Epidemiology**
Prevalence, Treatment, and Control of Hypertension by Sociodemographic Factors Among the Dutch Elderly, 814
**Epithelial cells**
Activation of MAPKs in Proximal Tubule Cells From Spontaneously Hypertensive and Control Wistar-Kyoto Rats, 1160
**Estrogen**
Effects of Menstrual Cycle and Race on Peripheral Vascular α-Adrenergic Responsiveness, 795
**Exercise**
Estimation of Skeletal Muscle Interstitial Adenosine During Forearm Dynamic Exercise in Humans, 1124
Physical Exercise, Aortic Blood Pressure, and Aortic Wall Elasticity and Composition in Rats, 919
Progressive Resistance Exercise and Resting Blood Pressure: A Meta-Analysis of Randomized Controlled Trials, 838

F

**Family history**
Glomerular Hyperfiltration, High Renin, and Low-Extracellular Volume in High Blood Pressure, 952
**Fatty acids**
Endothelin-1 Attenuates ω3 Fatty Acid–Induced Apoptosis by Inhibition of Caspase 3, 287

**Fetus**
Blood Pressure Is Related to Placental Volume and Birth Weight, 662
**Fibrinolysis**
Elevated Intraluminal Pressure Inhibits Vascular Tissue Plasminogen Activator Secretion and Downregulates Its Gene Expression, 1002
**Fibroblast growth factor**
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
**Fibroblasts**
Angiotensin II and $\alpha_v\beta_3$ Integrin Expression in Rat Neonatal Cardiac Fibroblasts, 978
**Fibrosis**
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985
Local Angiotensin II and Transforming Growth Factor-$\beta$1 in Renal Fibrosis of Rats, 1078
Role of Transforming Growth Factor-$\beta$1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86
**Fonsartan**
Long-Term Angiotensin II Type 1 Receptor Blockade With Fonsartan Doubles Lifespan of Hypertensive Rats, 908
**Free radicals**
Allopurinol Normalizes Endothelial Dysfunction in Type 2 Diabetics With Mild Hypertension, 746
Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II–Induced Endothelial Dysfunction, 595

## G

**G proteins**
G-Protein $\beta_3$ Subunit Gene Variant and Left Ventricular Hypertrophy in Essential Hypertension, 214
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38
Involvement of Rho-Kinase in Angiotensin II–Induced Hypertrophy of Rat Vascular Smooth Muscle Cells, 313
**Gelatinases**
8-Iso-Prostaglandin $F_{2\alpha}$ Reduces Trophoblast Invasion and Matrix Metalloproteinase Activity, 1307
**Gender**
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
Effect of Age on Brachial Artery Wall Properties Differs From the Aorta and Is Gender Dependent: A Population Study, 637
Effects of Menstrual Cycle and Race on Peripheral Vascular $\alpha$-Adrenergic Responsiveness, 795
Gender Differences in Development of Hypertension in Spontaneously Hypertensive Rats: Role of the Renin-Angiotensin System, 480
**Gene expression**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191
Cyclophilin B Expression in Renal Proximal Tubules of Hypertensive Rats, 958
Elevated Intraluminal Pressure Inhibits Vascular Tissue Plasminogen Activator Secretion and Downregulates Its Gene Expression, 1002
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
**Gene therapy**
Angiotensin I–Converting Enzyme Antisense Prevents Altered Renal Vascular Reactivity, but Not High Blood Pressure, in Spontaneously Hypertensive Rats, 209
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189
**Gene transfer**
Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II–Induced Endothelial Dysfunction, 595
**Genes**
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
Applicability of a "Speed" Congenic Strategy to Dissect Blood Pressure Quantitative Trait Loci on Rat Chromosome 2, 179
Downregulation of Angiotensin II Type 1 Receptor by All-*trans* *Retinoic Acid* in Vascular Smooth Muscle Cells, 297
Elevated Perfusion Pressure Upregulates Endothelin-1 and Endothelin B Receptor Expression in the Rabbit Carotid Artery, 648
Evaluation of the Aldosterone Synthase (CYP11B2) Gene Polymorphism in Patients With Myocardial Infarction, 704
G-Protein $\beta_3$ Subunit Gene Variant and Left Ventricular Hypertrophy in Essential Hypertension, 214
Genes and Hypertension: From Gene Mapping in Experimental Models to Vascular Gene Transfer Strategies, 164
Genetic Analysis of Rat Chromosome 1 and the *Sa* Gene in Spontaneous Hypertension, 225
A Genome-Wide Search For Susceptibility Loci to Human Essential Hypertension, 1291
Heritability of Angiotensin-Converting Enzyme and Angiotensinogen: A Comparison of US Blacks and Nigerians, 1141
Human Na+/H+ Exchanger Genes: Identification of Polymorphisms by Radiation Hybrid Mapping and Analysis of Linkage in End-Stage Renal Disease, 135
Increased Blood Pressure in $\alpha$-Calcitonin Gene–Related Peptide/Calcitonin Gene Knockout Mice, 470
Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice: Role of Soluble Guanylyl Cyclase, 231
Influence of the I/D Polymorphism of the Angiotensin-Converting Enzyme Gene on the Outcome of Microalbuminuria in Essential Hypertension, 490
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25
Lack of Association of 3 Functional Gene Variants With Hypertension in African Americans, 1297
Platelet $Ca^{2+}$ATPases: A Plural, Species-Specific, and Multiple Hypertension-Regulated Expression System, 91
Regulation of Sodium Balance and Blood Pressure by the $AT_{1A}$ Receptor for Angiotensin II, 550
Renin-Angiotensin System Genetic Polymorphisms and Salt Sensitivity in Essential Hypertension, 512
Role of $\alpha_2$-Adrenergic Receptor Subtypes in the Acute Hypertensive Response to Hypertonic Saline Infusion in Anephric Mice, 609
**Genetics**
$\beta$-2 Adrenergic Receptor Gene Variations, Blood Pressure, and Heart Size in Normal Twins, 555
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
*CYP11B2* Gene Polymorphisms in Idiopathic Hyperaldosteronism, 694
A Genome-Wide Search For Susceptibility Loci to Human Essential Hypertension, 1291
Glomerular Hyperfiltration, High Renin, and Low-Extracellular Volume in High Blood Pressure, 952
Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574
Human Na+/H+ Exchanger Genes: Identification of Polymorphisms by Radiation Hybrid Mapping and Analysis of Linkage in End-Stage Renal Disease, 135
**Glomerular filtration rate**
Glomerular Hyperfiltration in Hypertensive African Americans, 822
Inhibition of Nitric Oxide Synthesis Potentiates Hypertension During Chronic Glucose Infusion in Rats, 451
Subpressor Doses of Angiotensin II Increase Plasma $F_2$-Isoprostanes in Rats, 476
**Glomerular mesangium**
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971
**Glucocorticoids**
Acute Suppression of Muscle Sympathetic Nerve Activity by Hydrocortisone in Humans, 758

Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668

**Glucose**
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827

**Glutamate**
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413

**Growth substances**
Local Angiotensin II and Transforming Growth Factor-β1 in Renal Fibrosis of Rats, 1078
Role of Transforming Growth Factor-β1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86

**Guanosine**
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25

**Guanylyl cyclase**
Aging and Chronic Hypertension Decrease Expression of Rat Aortic Soluble Guanylyl Cyclase, 43

H

**Hamsters**
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150

**Heart**
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183
Arterial Hypertension, Microalbuminuria and Risk of Ischemic Heart Disease, 898
Potentiation of the Vascular Response to Kinins by Inhibition of Myocardial Kininases, 32

**Heart failure**
Altered Inotropic Responsiveness and Gene Expression of Hypertrophied Myocardium With Captopril, 1203
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391

**Heart rate**
Effects of Work Stress on Ambulatory Blood Pressure, Heart Rate and Heart Rate Variability, 880

**Heart transplantation**
Study of Arterial and Autonomic Effects of Cyclosporine in Humans, 1258

**Hemodynamics**
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
Expression and Actions of Heme Oxygenase in the Renal Medulla of Rats, 342
Insulin-Induced Decrease in Large Artery Stiffness Is Impaired in Uncomplicated Type 1 Diabetes Mellitus, 1043
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602

**Hopelessness**
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561

**Hormones**
5-Hydroxytryptamine–Induced Potentiation of Endothelin-1– and Norepinephrine-Induced Contraction Is Mitogen-Activated Protein Kinase Pathway Dependent, 244
Acute Suppression of Muscle Sympathetic Nerve Activity by Hydrocortisone in Humans, 758
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262
Role of Female Sex Hormones in the Development and Reversal of Dahl Hypertension, 484

**Human**
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
In Vitro and In Vivo Inhibition of the 2 Active Sites of ACE by Omapatrilat, a Vasopeptidase Inhibitor, 1226
Mental Stress–Induced Increase in Blood Pressure Is Not Related to Baroreflex Sensitivity in Middle-Aged Healthy Men, 887
Role of 11β-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099

**Hybridization**
Angiotensin-Converting Enzyme Expression in Human Carotid Artery Atherosclerosis, 353

**11β-Hydroxysteroid dehydrogenase**
Role of 11β-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099

**Hyperaldosteronism**
*CYP11B2* Gene Polymorphisms in Idiopathic Hyperaldosteronism, 694
Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668

**Hyperbaric index**
Reproducibility of the Hyperbaric Index as a Measure of Blood Pressure Excess, 118

**Hyperinsulinism**
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507

**Hyperlipidemia**
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832

**Hyperplasia**
$A_{2B}$ Receptors Mediate Antimitogenesis in Vascular Smooth Muscle Cells, 267

**Hyperpolarization**
Bradykinin-Induced Vasodilation of Human Forearm Resistance Vessels Is Primarily Mediated by Endothelium-Dependent Hyperpolarization, 1314
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379

**Hypertension**
Heme Oxygenase-1 Is Upregulated in the Kidney of Angiotensin II–Induced Hypertensive Rats: Possible Role in Renoprotection, 800
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113
Reproducibility of the Hyperbaric Index as a Measure of Blood Pressure Excess, 118
Restraint Stress: Differential Cardiovascular Responses in Wistar-Kyoto and Spontaneously Hypertensive Rats, 126

**Hypertension, arterial**
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
Arterial Hypertension, Microalbuminuria and Risk of Ischemic Heart Disease, 898
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
Elevated Perfusion Pressure Upregulates Endothelin-1 and Endothelin B Receptor Expression in the Rabbit Carotid Artery, 648
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992

**Hypertension, chronic**
Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668

**Hypertension, detection and control**
Department of Veterans Affairs Hypertension Meeting: A Proposal for Improved Care, 853
Effects of Work Stress on Ambulatory Blood Pressure, Heart Rate and Heart Rate Variability, 880
Importance of Systolic Blood Pressure in Older Americans, 1021
Prevalence, Treatment, and Control of Hypertension by Sociodemographic Factors Among the Dutch Elderly, 814

**Hypertension, essential**
Activation of MAPKs in Proximal Tubule Cells From Spontaneously Hypertensive and Control Wistar-Kyoto Rats, 1160
Amlodipine, Enalapril, and Dependent Leg Edema in Essential Hypertension, 621

Antihypertensive Effects of Fasidotril, a Dual Inhibitor of Neprilysin and Angiotensin-Converting Enzyme, in Rats and Humans, 1148
Association of Insulin Resistance With Salt Sensitivity and Nocturnal Fall of Blood Pressure, 864
Chronic $I_1$-Imidazoline Agonism: Sympathetic Mechanisms in Hypertension, 1264
Comparison of Hearts With 2 Types of Pressure-Overload Left Ventricular Hypertrophy, 1167
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
*CYP11B2* Gene Polymorphisms in Idiopathic Hyperaldosteronism, 694
Effect of the Angiotensin II Type 1 Receptor Blocker Candesartan on Endothelial Function in Patients With Essential Hypertension, 501
G-Protein $\beta_3$ Subunit Gene Variant and Left Ventricular Hypertrophy in Essential Hypertension, 214
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38
Genes and Hypertension: From Gene Mapping in Experimental Models to Vascular Gene Transfer Strategies, 164
A Genome-Wide Search For Susceptibility Loci to Human Essential Hypertension, 1291
Impact of Different Partition Values on Prevalences of Left Ventricular Hypertrophy and Concentric Geometry in a Large Hypertensive Population: The LIFE Study, 6
Influence of the I/D Polymorphism of the Angiotensin-Converting Enzyme Gene on the Outcome of Microalbuminuria in Essential Hypertension, 490
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507
Intrinsic Stiffness of the Carotid Arterial Wall Material in Essential Hypertensives, 1049
$Lys^{173}Arg$ and −344T/C Variants of *CYP11B2* in Japanese Patients With Low-Renin Hypertension, 699
Microalbuminuria and Pulse Pressure in Hypertensive and Atherosclerotic Men, 48
Pharmacological Concentrations of Ascorbic Acid Are Required for the Beneficial Effect on Endothelial Vasomotor Function in Hypertension, 936
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722
Tyrosine Phosphorylation of Human Platelet Plasma Membrane $Ca^{2+}$-ATPase in Hypertension, 103

**Hypertension, experimental**
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413
A Nonpeptide Mimic of Bradykinin Blunts the Development of Hypertension in Young Spontaneously Hypertensive Rats, 437
Role of $\alpha_2$-Adrenergic Receptor Subtypes in the Acute Hypertensive Response to Hypertonic Saline Infusion in Anephric Mice, 609
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602

**Hypertension, genetic**
$\beta$-2 Adrenergic Receptor Gene Variations, Blood Pressure, and Heart Size in Normal Twins, 555
Aging and Chronic Hypertension Decrease Expression of Rat Aortic Soluble Guanylyl Cyclase, 43
Applicability of a "Speed" Congenic Strategy to Dissect Blood Pressure Quantitative Trait Loci on Rat Chromosome 2, 179
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
Genetic Analysis of Rat Chromosome 1 and the *Sa* Gene in Spontaneous Hypertension, 225
Lack of Association of 3 Functional Gene Variants With Hypertension in African Americans, 1297
Shear Stress–Induced Release of Prostaglandin $H_2$ in Arterioles of Hypertensive Rats, 925

**Hypertension, incidence**
Long-Term Effects of Weight Loss and Dietary Sodium Reduction on Incidence of Hypertension, 544

**Hypertension, malignant**
Department of Veterans Affairs Hypertension Meeting: A Proposal for Improved Care, 853
Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221

**Hypertension, mild**
Effects of Work Stress on Ambulatory Blood Pressure, Heart Rate and Heart Rate Variability, 880

**Hypertension, mineralocorticoid**
Interaction Between Nitric Oxide and Mineralocorticoids in the Long-Term Control of Blood Pressure, 752

**Hypertension, obesity**
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832
Overweight and Hypertension: A 2-Way Street? 807
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270
Weight Gain–Induced Blood Pressure Elevation, 1135

**Hypertension, pregnancy**
8-Iso-Prostaglandin $F_{2\alpha}$ Reduces Trophoblast Invasion and Matrix Metalloproteinase Activity, 1307

**Hypertension, renal**
Angiotensin I–Converting Enzyme Antisense Prevents Altered Renal Vascular Reactivity, but Not High Blood Pressure, in Spontaneously Hypertensive Rats, 209
Integration of Aortic Nerve Inputs in Hypertensive Rats, 430

**Hypertension, secondary**
Cellular Hypertrophy in Subcutaneous Small Arteries of Patients With Renovascular Hypertension, 931

**Hypertension, sodium-dependent**
Characterization of Murine Vasopressor and Vasodepressor Prostaglandin $E_2$ Receptors, 1129
Endothelin Enhances and Inhibits Adrenal Catecholamine Release in Deoxycorticosterone Acetate-Salt Hypertensive Rats, 385
Mechanisms of Increased Venous Smooth Muscle Tone in Desoxycorticosterone Acetate-Salt Hypertension, 464
Role of Female Sex Hormones in the Development and Reversal of Dahl Hypertension, 484
Role of FMRFamide-Activated Brain Sodium Channel in Salt-Sensitive Hypertension, 443

**Hypertension, spontaneous**
Angiotensin I–Converting Enzyme Antisense Gene Therapy Causes Permanent Antihypertensive Effects in the SHR, 202

**Hypertension, white-coat**
Attenuation of the "White-Coat Effect" by Antihypertensive Treatment and Regression of Target Organ Damage, 614
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844

**Hypertrophy**
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
The Brain Renin-Angiotensin System Modulates Angiotensin II–Induced Hypertension and Cardiac Hypertrophy, 409
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Cellular Hypertrophy in Subcutaneous Small Arteries of Patients With Renovascular Hypertension, 931
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
Effect of Lovastatin on Cerebral Circulation in Spontaneously Hypertensive Rats, 1105
Effect of Obesity on Electrocardiographic Left Ventricular Hypertrophy in Hypertensive Patients: The Losartan Intervention For Endpoint (LIFE) Reduction in Hypertension Study, 13
Enhanced Adrenomedullin Production by Mechanical Stretching in Cultured Rat Cardiomyocytes, 1210
G-Protein $\beta_3$ Subunit Gene Variant and Left Ventricular Hypertrophy in Essential Hypertension, 214

Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574
Inhibitory Regulation of Hypertrophy by Endogenous Atrial Natriuretic Peptide in Cultured Cardiac Myocytes, 19
Involvement of Rho-Kinase in Angiotensin II–Induced Hypertrophy of Rat Vascular Smooth Muscle Cells, 313
Vascular NADH/NADPH Oxidase Is Involved in Enhanced Superoxide Production in Spontaneously Hypertensive Rats, 1055

**Hypertrophy, cardiac**
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992

**Hypertrophy, left ventricular**
Altered Inotropic Responsiveness and Gene Expression of Hypertrophied Myocardium With Captopril, 1203
Comparison of Hearts With 2 Types of Pressure-Overload Left Ventricular Hypertrophy, 1167
Impact of Different Partition Values on Prevalences of Left Ventricular Hypertrophy and Concentric Geometry in a Large Hypertensive Population: The LIFE Study, 6

**Hypokalemia**
Editorial Commentary: Diuretic Treatment of Systolic Hypertension in the Elderly, 1031
Hypokalemia Associated With Diuretic Use and Cardiovascular Events in the Systolic Hypertension in the Elderly Program, 1025

**Hypotension**
Cardiovascular Effects of 2-Arachidonoyl Glycerol in Anesthetized Mice, 679

**Hypothalamus**
Low Birth Weight Predicts Elevated Plasma Cortisol Concentrations in Adults From 3 Populations, 1301

## I

**Immunohistochemistry**
Angiotensin-Converting Enzyme Expression in Human Carotid Artery Atherosclerosis, 353

**Infant**
Angiotensin I–Converting Enzyme Isoforms (High and Low Molecular Weight) in Urine of Premature and Full-Term Infants, 1284

**Infarction**
Nitric Oxide Deficiency Contributes to Large Cerebral Infarct Size, 1111

**Inflammation**
Role of Transforming Growth Factor-$\beta$1 in Cardiovascular Inflammatory Changes Induced by Chronic Inhibition of Nitric Oxide Synthesis, 86

**Inflammatory response**
NF-$\kappa$B Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193

**Infusion, intravenous**
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631

**Inhibitors, HMG-CoA reductase**
Effect of Lovastatin on Cerebral Circulation in Spontaneously Hypertensive Rats, 1105

**Insulin**
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827
High- or Low-Salt Diet From Weaning to Adulthood: Effect on Insulin Sensitivity in Wistar Rats, 424
Inhibition of Nitric Oxide Synthesis Potentiates Hypertension During Chronic Glucose Infusion in Rats, 451
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507
Insulin Inhibits Migration of Vascular Smooth Muscle Cells With Inducible Nitric Oxide Synthase, 303
Weight Gain–Induced Blood Pressure Elevation, 1135

**Insulin resistance**
Aldose Reductase Inhibitor Improves Insulin-Mediated Glucose Uptake and Prevents Migration of Human Coronary Artery Smooth Muscle Cells Induced by High Glucose, 1092
Association of Insulin Resistance With Salt Sensitivity and Nocturnal Fall of Blood Pressure, 864
High- or Low-Salt Diet From Weaning to Adulthood: Effect on Insulin Sensitivity in Wistar Rats, 424
Metformin Improves Vascular Function in Insulin-Resistant Rats, 108

**Integrins**
Angiotensin II and $\alpha_v\beta_3$ Integrin Expression in Rat Neonatal Cardiac Fibroblasts, 978
Angiotensin II Enhances Integrin and $\alpha$-Actinin Expression in Adult Rat Cardiac Fibroblasts, 273

**Interleukins**
*N*-Acetyl-L-Cysteine Potentiates Interleukin-1$\beta$ Induction of Nitric Oxide Synthase: Role of p44/42 Mitogen-Activated Protein Kinases, 914
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
Peroxisome Proliferator–Activated Receptor-$\gamma$ Ligands Inhibit Nitric Oxide Synthesis in Vascular Smooth Muscle Cells, 1232
Role of $Ca^{2+}$-Independent Phospholipase $A_2$ in the Regulation of Inducible Nitric Oxide Synthase in Cardiac Myocytes, 249

**Intracrine**
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189

**Investigative techniques**
Weight Gain–Induced Blood Pressure Elevation, 1135

**Ions**
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113

**Ischemia**
Arterial Hypertension, Microalbuminuria and Risk of Ischemic Heart Disease, 898
Comparison of Hearts With 2 Types of Pressure-Overload Left Ventricular Hypertrophy, 1167

## J

**Janus kinases**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191

## K

**Kallikrein**
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25

**Kidney**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Cyclooxygenase-2 Involved in Stimulation of Renal Mechanosensitive Neurons, 373
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
eNOS Mediates L-Arginine–Induced Inhibition of Thick Ascending Limb Chloride Flux, 319
Expression and Actions of Heme Oxygenase in the Renal Medulla of Rats, 342
Heme Oxygenase-1 Is Upregulated in the Kidney of Angiotensin II–Induced Hypertensive Rats: Possible Role in Renoprotection, 800
Local Angiotensin II and Transforming Growth Factor-$\beta$1 in Renal Fibrosis of Rats, 1078
New $\beta$-Blocker: Prolonged Reduction in High Blood Pressure With $\beta_1$ Antisense Oligodeoxynucleotides, 219
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
Nitric Oxide Synthase Activity and Isoforms in Rat Renal Vasculature, 337
Role of the Angiotensin Type 2 Receptor in the Regulation of Blood Pressure and Renal Function, 155

**Kidney medulla**
Effects of Renal Medullary and Intravenous Norepinephrine on Renal Antihypertensive Function, 965

**Kinase**
Angiotensin II Enhances Integrin and α-Actinin Expression in Adult Rat Cardiac Fibroblasts, 273
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
Role of Reactive Oxygen Species in Bradykinin-Induced Mitogen-Activated Protein Kinase and c-*fos* Induction in Vascular Cells, 942
**Kinins**
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25

L

**L-NAME**
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
Interaction Between Nitric Oxide and Mineralocorticoids in the Long-Term Control of Blood Pressure, 752
**Lactates**
Estimation of Skeletal Muscle Interstitial Adenosine During Forearm Dynamic Exercise in Humans, 1124
**Laser-Doppler flowmetry**
Effects of Renal Medullary and Intravenous Norepinephrine on Renal Antihypertensive Function, 965
**Leptin**
Weight Gain–Induced Blood Pressure Elevation, 1135
**Letters to the Editor**
Ambulatory Blood Pressure: Normality and Comparison With Other Measurements, e8
Ambulatory Blood Pressure: Normality and Comparison With Other Measurements, e8
Heart Rate Variability: How to Assess Effects of Mild Therapies on Autonomic Control in Small Groups of Mild and Borderline Hypertensives? e6
Heart Rate Variability: How to Assess Effects of Mild Therapies on Autonomic Control in Small Groups of Mild and Borderline Hypertensives? e7
J-Shaped Relation Between Blood Pressure and Stroke. Letter to the editor, e15
J-Shaped Relation Between Blood Pressure and Stroke. Letter to the editor, e15. Response to letter, e16
Long-Term Telemetric Recording of Arterial Pressure and Heart Rate in Mice Fed Basal and High NaCl Diets, e1
Much Ado about Nothing, or Much to Do About Something? The Continuing Controversy Over the Role of Uric Acid in Cardiovascular Disease, e10
Much Ado about Nothing, or Much to Do About Something? The Continuing Controversy Over the Role of Uric Acid in Cardiovascular Disease, e10
**Linkage (genetic)**
Contribution of Autosomal Loci and the Y Chromosome to the Stress Response in Rats, 568
**Lipids**
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
**Lipoproteins**
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971
**Lipoxygenase**
Effects of Aspirin-Like Drugs on Nitric Oxide Synthesis in Rat Vascular Smooth Muscle Cells, 1085
**Losartan**
Angiotensin III Depressor Action in the Conscious Rabbit Is Blocked by Losartan but not PD 123319, 130
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
Proapoptotic and Growth-Inhibitory Role of Angiotensin II Type 2 Receptor in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats In Vivo, 1069
**Lymphocytes**
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113
**Lysophosphatidylcholines**
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971

M

**Macrophages**
Angiotensin-Converting Enzyme Expression in Human Carotid Artery Atherosclerosis, 353
**Magnesium**
Intralymphocyte Free Magnesium in Patients With Primary Aldosteronism: Aldosterone and Lymphocyte Magnesium Homeostasis, 113
**MAP kinase**
Contribution of Ras GTPase/MAP Kinase and Cytochrome P450 Metabolites to Deoxycorticosterone-Salt–Induced Hypertension, 457
**Mass**
Microalbuminuria and Pulse Pressure in Hypertensive and Atherosclerotic Men, 48
**Mechanical stretch**
Enhanced Adrenomedullin Production by Mechanical Stretching in Cultured Rat Cardiomyocytes, 1210
**Membranes**
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379
**Mesangium**
Hydrolysis by Cathepsin B of Fluorescent Peptides Derived From Human Prorenin, 1278
**Meta-analysis**
Progressive Resistance Exercise and Resting Blood Pressure: A Meta-Analysis of Randomized Controlled Trials, 838
**Metabolism**
Comparison of Hearts With 2 Types of Pressure-Overload Left Ventricular Hypertrophy, 1167
**Metformin**
Metformin Improves Vascular Function in Insulin-Resistant Rats, 108
**Mice**
Cardiovascular Effects of 2-Arachidonoyl Glycerol in Anesthetized Mice, 679
eNOS Mediates L-Arginine–Induced Inhibition of Thick Ascending Limb Chloride Flux, 319
Increased Blood Pressure in α-Calcitonin Gene–Related Peptide/Calcitonin Gene Knockout Mice, 470
Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice: Role of Soluble Guanylyl Cyclase, 231
Regulation of Sodium Balance and Blood Pressure by the $AT_{1A}$ Receptor for Angiotensin II, 550
**Microalbuminuria**
Arterial Hypertension, Microalbuminuria and Risk of Ischemic Heart Disease, 898
Influence of the I/D Polymorphism of the Angiotensin-Converting Enzyme Gene on the Outcome of Microalbuminuria in Essential Hypertension, 490
**Microcirculation**
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307
Endothelin-Mediated Calcium Signaling in Preglomerular Smooth Muscle Cells, 280
Shear Stress–Induced Release of Prostaglandin $H_2$ in Arterioles of Hypertensive Rats, 925
**Microdialysis**
Estimation of Skeletal Muscle Interstitial Adenosine During Forearm Dynamic Exercise in Humans, 1124

**Mineralocorticoids**
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875
**Monocytes**
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
**Morbidity**
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
**Mortality**
Continuous Relation Between Left Ventricular Mass and Cardiovascular Risk in Essential Hypertension, 580
Long-Term Absolute Benefit of Lowering Blood Pressure in Hypertensive Patients According to the JNC VI Risk Stratification, 539
**Motifs**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191
**Moxonidine**
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215
Chronic $I_1$-Imidazoline Agonism: Sympathetic Mechanisms in Hypertension, 1264
**Muscle, cremasteric**
Shear Stress–Induced Release of Prostaglandin $H_2$ in Arterioles of Hypertensive Rats, 925
**Muscle, skeletal**
Estimation of Skeletal Muscle Interstitial Adenosine During Forearm Dynamic Exercise in Humans, 1124
**Muscle, smooth**
$A_{2B}$ Receptors Mediate Antimitogenesis in Vascular Smooth Muscle Cells, 267
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262
Peroxisome Proliferator–Activated Receptor-γ Ligands Inhibit Nitric Oxide Synthesis in Vascular Smooth Muscle Cells, 1232
**Muscle, smooth, vascular**
*N*-Acetyl-L-Cysteine Potentiates Interleukin-1β Induction of Nitric Oxide Synthase: Role of p44/42 Mitogen-Activated Protein Kinases, 914
Angiotensin II and PDGF-BB Stimulate $\beta_1$-Integrin–Mediated Adhesion and Spreading in Human VSMCs, 255
Decreased Endothelium-Dependent Vascular Relaxation During Reduction of Uterine Perfusion Pressure in Pregnant Rat, 367
Downregulation of Angiotensin II Type 1 Receptor by All-*trans Retinoic Acid* in Vascular Smooth Muscle Cells, 297
Endothelin-1 Attenuates ω3 Fatty Acid–Induced Apoptosis by Inhibition of Caspase 3, 287
Extracellular Signal-Regulated Kinase Pathway Is Involved in Basic Fibroblast Growth Factor Effect on Angiotensin II–Induced $Ca^{2+}$ Transient in Vascular Smooth Muscle Cell From Wistar-Kyoto and Spontaneously Hypertensive Rats, 61
Induction of Cyclooxygenase-2 by Angiotensin II in Cultured Rat Vascular Smooth Muscle Cells, 68
Insulin Inhibits Migration of Vascular Smooth Muscle Cells With Inducible Nitric Oxide Synthase, 303
Inversion of the Intracellular $Na^+/K^+$ Ratio Blocks Apoptosis in Vascular Smooth Muscle Cells by Induction of RNA Synthesis, 1062
Ion Channels and Vascular Tone, 173
p38 MAP Kinase Is Required for Vasopressin-Stimulated HSP27 Induction in Aortic Smooth Muscle Cells, 673
Proapoptotic and Growth-Inhibitory Role of Angiotensin II Type 2 Receptor in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats In Vivo, 1069
Role of 11β-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379
**Myocardial infarction**
Evaluation of the Aldosterone Synthase (CYP11B2) Gene Polymorphism in Patients With Myocardial Infarction, 704
Hypokalemia Associated With Diuretic Use and Cardiovascular Events in the Systolic Hypertension in the Elderly Program, 1025
Kallikrein Gene Delivery Attenuates Myocardial Infarction and Apoptosis After Myocardial Ischemia and Reperfusion, 25
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844
**Myocardium**
Angiotensin II Type 1 Receptor Blockade Prevents Cardiac Remodeling in Bradykinin $B_2$ Receptor Knockout Mice, 391
**Myocytes**
Inhibitory Regulation of Hypertrophy by Endogenous Atrial Natriuretic Peptide in Cultured Cardiac Myocytes, 19
Interleukin-1β Regulates the Human Brain Natriuretic Peptide Promoter via $Ca^{2+}$-Dependent Protein Kinase Pathways, 292
Role of $Ca^{2+}$-Independent Phospholipase $A_2$ in the Regulation of Inducible Nitric Oxide Synthase in Cardiac Myocytes, 249
**Myofibroblasts**
Local Angiotensin II and Transforming Growth Factor-β1 in Renal Fibrosis of Rats, 1078

N

**NADPH diaphorase**
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
**Natriuresis**
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587
Effects of Renal Medullary and Intravenous Norepinephrine on Renal Antihypertensive Function, 965
A Nonpeptide Mimic of Bradykinin Blunts the Development of Hypertension in Young Spontaneously Hypertensive Rats, 437
**Natriuretic peptides**
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
Effects of Cardiac Natriuretic Peptides on Oxidized Low-Density Lipoprotein– and Lysophosphatidylcholine-Induced Human Mesangial Cell Migration, 971
Endothelin-Dependent and -Independent Components of Strain-Activated Brain Natriuretic Peptide Gene Transcription Require Extracellular Signal Regulated Kinase and p38 Mitogen-Activated Protein Kinase, 188
Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221
**Neointima**
Inhibition of Vascular Smooth Muscle Cell Migration by Elevation of Extracellular Potassium Concentration, 948
**Nephrogenesis**
Angiotensin I–Converting Enzyme Isoforms (High and Low Molecular Weight) in Urine of Premature and Full-Term Infants, 1284
**Neprilysin**
Antihypertensive Effects of Fasidotril, a Dual Inhibitor of Neprilysin and Angiotensin-Converting Enzyme, in Rats and Humans, 1148
**Nervous system, autonomic**
Diurnal Blood Pressure Variation in Progressive Autonomic Failure, 892
**Nervous system, sympathetic**
Mechanisms of Increased Venous Smooth Muscle Tone in Desoxycorticosterone Acetate-Salt Hypertension, 464
Role of FMRFamide-Activated Brain Sodium Channel in Salt-Sensitive Hypertension, 443
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379
**Neurotransmitter**
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413
***N*$^G$-Nitro-L-arginine**
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602
**Nifedipine**
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631

**Nitric oxide**
Aging and Chronic Hypertension Decrease Expression of Rat Aortic Soluble Guanylyl Cyclase, 43
Aging Increases PGHS-2–Dependent Vasoconstriction in Rat Mesenteric Arteries, 1242
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Angiotensin Type 2 Receptor Mediates Valsartan-Induced Hypotension in Conscious Rats, 1074
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
Bradykinin-Induced Vasodilation of Human Forearm Resistance Vessels Is Primarily Mediated by Endothelium-Dependent Hyperpolarization, 1314
Cyclosporin A Protects Against Angiotensin II–Induced End-Organ Damage in Double Transgenic Rats Harboring Human Renin and Angiotensinogen Genes, 360
Decreased Endothelium-Dependent Vascular Relaxation During Reduction of Uterine Perfusion Pressure in Pregnant Rat, 367
Effect of the Angiotensin II Type 1 Receptor Blocker Candesartan on Endothelial Function in Patients With Essential Hypertension, 501
Effects of Aspirin-Like Drugs on Nitric Oxide Synthesis in Rat Vascular Smooth Muscle Cells, 1085
Effects of Systemic Inhibition of Neuronal Nitric Oxide Synthase in Diabetic Rats, 655
Endothelin-A Blockade Attenuates Systemic and Renal Hemodynamic Effects of L-NAME In Humans, 518
eNOS Mediates L-Arginine–Induced Inhibition of Thick Ascending Limb Chloride Flux, 319
Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice: Role of Soluble Guanylyl Cyclase, 231
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324
Insulin Action Is Associated With Endothelial Function in Hypertension and Type 2 Diabetes, 507
Insulin Inhibits Migration of Vascular Smooth Muscle Cells With Inducible Nitric Oxide Synthase, 303
Interactions Between Nitric Oxide and Endothelin in the Regulation of Vascular Tone of Human Resistance Vessels In Vivo, 1237
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732
Metformin Improves Vascular Function in Insulin-Resistant Rats, 108
Nitric Oxide Deficiency Contributes to Large Cerebral Infarct Size, 1111
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
Peroxisome Proliferator–Activated Receptor-γ Ligands Inhibit Nitric Oxide Synthesis in Vascular Smooth Muscle Cells, 1232
Platelet-Derived Nitric Oxide and Coronary Risk Factors, 904
Pranidipine Enhances the Action of Nitric Oxide Released From Endothelial Cells, 82
Role of $Ca^{2+}$-Independent Phospholipase $A_2$ in the Regulation of Inducible Nitric Oxide Synthase in Cardiac Myocytes, 249

**Nitric oxide synthase**
*N*-Acetyl-L-Cysteine Potentiates Interleukin-1β Induction of Nitric Oxide Synthase: Role of p44/42 Mitogen-Activated Protein Kinases, 914
Effects of Systemic Inhibition of Neuronal Nitric Oxide Synthase in Diabetic Rats, 655
Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension, 418
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324
Long-Term Angiotensin II Type 1 Receptor Blockade With Fonsartan Doubles Lifespan of Hypertensive Rats, 908
NF-κB Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193
Nitric Oxide Deficiency Contributes to Large Cerebral Infarct Size, 1111
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
Nitric Oxide Synthase Activity and Isoforms in Rat Renal Vasculature, 337

**Nongenomic**
Role of 11β-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099

**Noradrenaline**
Angiotensin-(1-7) Attenuates Vasoconstriction Evoked by Angiotensin II but Not by Noradrenaline in Man, 998

**Norepinephrine**
5-Hydroxytryptamine–Induced Potentiation of Endothelin-1– and Norepinephrine-Induced Contraction Is Mitogen-Activated Protein Kinase Pathway Dependent, 244
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Dissociation Between Neural and Vascular Responses to Sympathetic Stimulation: Contribution of Local Adrenergic Receptor Function, 76
Effects of Menstrual Cycle and Race on Peripheral Vascular α-Adrenergic Responsiveness, 795
Effects of Renal Medullary and Intravenous Norepinephrine on Renal Antihypertensive Function, 965
Glomerular Hyperfiltration in Hypertensive African Americans, 822
Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension, 418

**Normotension**
Reproducibility of the Hyperbaric Index as a Measure of Blood Pressure Excess, 118

## O

**Obesity**
Effect of Obesity on Electrocardiographic Left Ventricular Hypertrophy in Hypertensive Patients: The Losartan Intervention For Endpoint (LIFE) Reduction in Hypertension Study, 13
High-Fat Diet Elevates Blood Pressure and Cerebrovascular Muscle $Ca^{2+}$ Current, 832
Overweight and Hypertension: A 2-Way Street? 807
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270
Weight Gain–Induced Blood Pressure Elevation, 1135

**Oxidative stress**
8-Iso-Prostaglandin $F_{2α}$ Reduces Trophoblast Invasion and Matrix Metalloproteinase Activity, 1307
Aldose Reductase Inhibitor Improves Insulin-Mediated Glucose Uptake and Prevents Migration of Human Coronary Artery Smooth Muscle Cells Induced by High Glucose, 1092
Heme Oxygenase-1 Is Upregulated in the Kidney of Angiotensin II–Induced Hypertensive Rats: Possible Role in Renoprotection, 800

**Oxygen**
Expression and Actions of Heme Oxygenase in the Renal Medulla of Rats, 342

## P

**Parathyroid hormones**
Relation Between Low Calcium Intake, Parathyroid Hormone, and Blood Pressure, 1154

**Pathology**
Contribution of Ras GTPase/MAP Kinase and Cytochrome P450 Metabolites to Deoxycorticosterone-Salt–Induced Hypertension, 457

**Pathway, polyol**
Aldose Reductase Inhibitor Improves Insulin-Mediated Glucose Uptake and Prevents Migration of Human Coronary Artery Smooth Muscle Cells Induced by High Glucose, 1092

**Pelvis**
Cyclooxygenase-2 Involved in Stimulation of Renal Mechanosensitive Neurons, 373

**Peptides**
Increased Blood Pressure in α-Calcitonin Gene–Related Peptide/Calcitonin Gene Knockout Mice, 470

**Pharmacokinetics**
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631

**Phosphorylation**
Tyrosine Phosphorylation of Human Platelet Plasma Membrane $Ca^{2+}$-ATPase in Hypertension, 103
**Placebo effect**
Chromosome Mapping Effect of Continuous Positive Airway Pressure on Blood Pressure: A Placebo Trial, 144
**Placenta**
Blood Pressure Is Related to Placental Volume and Birth Weight, 662
**Plasma renin activity**
Glomerular Hyperfiltration in Hypertensive African Americans, 822
**Plasminogen activators**
Elevated Intraluminal Pressure Inhibits Vascular Tissue Plasminogen Activator Secretion and Downregulates Its Gene Expression, 1002
**Platelet-derived growth factor**
Angiotensin II and PDGF-BB Stimulate $\beta_1$-Integrin–Mediated Adhesion and Spreading in Human VSMCs, 255
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Inhibition of Vascular Smooth Muscle Cell Migration by Elevation of Extracellular Potassium Concentration, 948
**Platelets**
Platelet $Ca^{2+}$ATPases: A Plural, Species-Specific, and Multiple Hypertension-Regulated Expression System, 91
Platelet-Derived Nitric Oxide and Coronary Risk Factors, 904
Tyrosine Phosphorylation of Human Platelet Plasma Membrane $Ca^{2+}$-ATPase in Hypertension, 103
**Polymerase chain reaction**
Cyclophilin B Expression in Renal Proximal Tubules of Hypertensive Rats, 958
**Polymorphism**
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
*CYP11B2* Gene Polymorphisms in Idiopathic Hyperaldosteronism, 694
G-Protein $\beta_3$ Subunit Gene Variant and Left Ventricular Hypertrophy in Essential Hypertension, 214
$Lys^{173}Arg$ and −344T/C Variants of *CYP11B2* in Japanese Patients With Low-Renin Hypertension, 699
**Potassium**
Inversion of the Intracellular $Na^+/K^+$ Ratio Blocks Apoptosis in Vascular Smooth Muscle Cells by Induction of RNA Synthesis, 1062
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379
**Potassium channels**
Angiotensin I–Converting Enzyme Antisense Prevents Altered Renal Vascular Reactivity, but Not High Blood Pressure, in Spontaneously Hypertensive Rats, 209
Ion Channels and Vascular Tone, 173
**Preeclampsia**
8-Iso-Prostaglandin $F_{2\alpha}$ Reduces Trophoblast Invasion and Matrix Metalloproteinase Activity, 1307
**Pregnancy**
Blood Pressure Is Related to Placental Volume and Birth Weight, 662
Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668
**Promoter regions**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191
**Prorenin**
Hydrolysis by Cathepsin B of Fluorescent Peptides Derived From Human Prorenin, 1278
**Prospective studies**
Changes of Nocturnal Blood Pressure Dipping Status in Hypertensives by Nighttime Dosing of $\alpha$-Adrenergic Blocker, Doxazosin: Results from the HALT Study, 787
**Prostacyclin**
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270
**Prostaglandins**
8-Iso-Prostaglandin $F_{2\alpha}$ Reduces Trophoblast Invasion and Matrix Metalloproteinase Activity, 1307
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Aging Increases PGHS-2–Dependent Vasoconstriction in Rat Mesenteric Arteries, 1242
Angiotensin-(1-7) Reduces Norepinephrine Release Through a Nitric Oxide Mechanism in Rat Hypothalamus, 1248
Bradykinin-Induced Vasodilation of Human Forearm Resistance Vessels Is Primarily Mediated by Endothelium-Dependent Hyperpolarization, 1314
Characterization of Murine Vasopressor and Vasodepressor Prostaglandin $E_2$ Receptors, 1129
Cyclooxygenase-2 Involved in Stimulation of Renal Mechanosensitive Neurons, 373
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732
Shear Stress–Induced Release of Prostaglandin $H_2$ in Arterioles of Hypertensive Rats, 925
**Protein kinases**
5-Hydroxytryptamine–Induced Potentiation of Endothelin-1– and Norepinephrine-Induced Contraction Is Mitogen-Activated Protein Kinase Pathway Dependent, 244
*N*-Acetyl-L-Cysteine Potentiates Interleukin-1$\beta$ Induction of Nitric Oxide Synthase: Role of p44/42 Mitogen-Activated Protein Kinases, 914
Activation of MAPKs in Proximal Tubule Cells From Spontaneously Hypertensive and Control Wistar-Kyoto Rats, 1160
Aldose Reductase Inhibitor Improves Insulin-Mediated Glucose Uptake and Prevents Migration of Human Coronary Artery Smooth Muscle Cells Induced by High Glucose, 1092
Endothelin-Dependent and -Independent Components of Strain-Activated Brain Natriuretic Peptide Gene Transcription Require Extracellular Signal Regulated Kinase and p38 Mitogen-Activated Protein Kinase, 188
Induction of Cyclooxygenase-2 by Angiotensin II in Cultured Rat Vascular Smooth Muscle Cells, 68
Interleukin-1$\beta$ Regulates the Human Brain Natriuretic Peptide Promoter via $Ca^{2+}$-Dependent Protein Kinase Pathways, 292
p38 MAP Kinase Is Required for Vasopressin-Stimulated HSP27 Induction in Aortic Smooth Muscle Cells, 673
**Proteins**
NF-$\kappa$B Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193
**Proteinuria**
Heme Oxygenase-1 Is Upregulated in the Kidney of Angiotensin II–Induced Hypertensive Rats: Possible Role in Renoprotection, 800
**Proto-oncogenes**
NF-$\kappa$B Inhibition Ameliorates Angiotensin II–Induced Inflammatory Damage in Rats, 193
Role of Reactive Oxygen Species in Bradykinin-Induced Mitogen-Activated Protein Kinase and c-*fos* Induction in Vascular Cells, 942
**Psychology**
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561
**Pulse**
Editorial Commentary: Blood Pressure–Measuring Devices: Time to Open Pandora's Box and Regulate, 1037
Microalbuminuria and Pulse Pressure in Hypertensive and Atherosclerotic Men, 48
Skip Patterns in DINAMAP-Measured Blood Pressure in 3 Epidemiological Studies, 1032

## Q

**Quantitative trait**
Contribution of Autosomal Loci and the Y Chromosome to the Stress Response in Rats, 568

## R

**Rabbits**
Angiotensin III Depressor Action in the Conscious Rabbit Is Blocked by Losartan but not PD 123319, 130

Antagonist-Induced Intracellular Sequestration of Rabbit Bradykinin $B_2$ Receptor, 1319
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
Vascular Response to Angiotensin II in Atherosclerosis: Role of the Baroreflex, 685

**Race**
Effects of Menstrual Cycle and Race on Peripheral Vascular $\alpha$-Adrenergic Responsiveness, 795
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722

**Random allocation**
Influence of Diabetes and Type of Hypertension on Response to Antihypertensive Treatment, 1038

**Ras**
Contribution of Ras GTPase/MAP Kinase and Cytochrome P450 Metabolites to Deoxycorticosterone-Salt–Induced Hypertension, 457

**Rats**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
G-Protein–Coupled Receptor Kinase Activity in Hypertension: Increased Vascular and Lymphocyte G-Protein Receptor Kinase-2 Protein Expression, 38
Genes and Hypertension: From Gene Mapping in Experimental Models to Vascular Gene Transfer Strategies, 164
Implications of Species Difference for Clinical Investigation: Studies on the Renin-Angiotensin System, 150
Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension, 418
Local Angiotensin II and Transforming Growth Factor-$\beta$1 in Renal Fibrosis of Rats, 1078
Physical Exercise, Aortic Blood Pressure, and Aortic Wall Elasticity and Composition in Rats, 919
Potentiation of the Vascular Response to Kinins by Inhibition of Myocardial Kininases, 32
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379

**Rats Sprague-Dawley**
Nitric Oxide Synthase Activity and Isoforms in Rat Renal Vasculature, 337

**Rats, inbred SHR**
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
Excitatory Amino Acids in the Rostral Ventrolateral Medulla Support Blood Pressure in Spontaneously Hypertensive Rats, 413
Genetic Analysis of Rat Chromosome 1 and the *Sa* Gene in Spontaneous Hypertension, 225
A Nonpeptide Mimic of Bradykinin Blunts the Development of Hypertension in Young Spontaneously Hypertensive Rats, 437
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631
Vascular NADH/NADPH Oxidase Is Involved in Enhanced Superoxide Production in Spontaneously Hypertensive Rats, 1055

**Rats, inbred WKY**
Genetic Analysis of Rat Chromosome 1 and the *Sa* Gene in Spontaneous Hypertension, 225

**Rats, spontaneously hypertensive**
Cyclophilin B Expression in Renal Proximal Tubules of Hypertensive Rats, 958
Effect of Calcium Antagonists on Glomerular Arterioles in Spontaneously Hypertensive Rats, 775

**Rats, stroke-prone spontaneously hypertensive**
Applicability of a "Speed" Congenic Strategy to Dissect Blood Pressure Quantitative Trait Loci on Rat Chromosome 2, 179
Cardiovascular Effects of Combination of Perindopril, Candesartan, and Amlodipine in Hypertensive Rats, 769
Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221
Long-Term Angiotensin II Type 1 Receptor Blockade With Fonsartan Doubles Lifespan of Hypertensive Rats, 908

**Rats, transgenic**
Angiotensinogen Concentrations and Renin Clearance: Implications for Blood Pressure Regulation, 780
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992

**Rats, Wistar**
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875

**Rats, Wistar-Furth**
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875

**Rauwolscine**
Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension, 418

**Reactive oxygen species**
Role of Reactive Oxygen Species in Bradykinin-Induced Mitogen-Activated Protein Kinase and c-*fos* Induction in Vascular Cells, 942

**Receptors**
Cardiovascular Effects of 2-Arachidonoyl Glycerol in Anesthetized Mice, 679
Elevated Perfusion Pressure Upregulates Endothelin-1 and Endothelin B Receptor Expression in the Rabbit Carotid Artery, 648
$ET_B$ Receptor Blockade Potentiates the Pressor Response to Big Endothelin-1 But Not Big Endothelin-2 in the Anesthetized Rabbit, 726
Potentiation of the Vascular Response to Kinins by Inhibition of Myocardial Kininases, 32
Role of $\alpha_2$-Adrenergic Receptor Subtypes in the Acute Hypertensive Response to Hypertonic Saline Infusion in Anephric Mice, 609
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602

**Receptors, adenosine**
$A_{2B}$ Receptors Mediate Antimitogenesis in Vascular Smooth Muscle Cells, 267
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262

**Receptors, adrenergic**
Dissociation Between Neural and Vascular Responses to Sympathetic Stimulation: Contribution of Local Adrenergic Receptor Function, 76

**Receptors, adrenergic, alpha**
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215
Effects of Menstrual Cycle and Race on Peripheral Vascular $\alpha$-Adrenergic Responsiveness, 795
Increase in Renal Medullary Nitric Oxide Synthase Activity Protects From Norepinephrine-Induced Hypertension, 418

**Receptors, adrenergic, beta**
$\beta$-2 Adrenergic Receptor Gene Variations, Blood Pressure, and Heart Size in Normal Twins, 555
Altered Inotropic Responsiveness and Gene Expression of Hypertrophied Myocardium With Captopril, 1203
Sympathetic Control of Arterial Membrane Potential by ATP-Sensitive $K^+$-Channels, 379

**Receptors, angiotensin**
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183
Angiotensin III Depressor Action in the Conscious Rabbit Is Blocked by Losartan but not PD 123319, 130
Enhanced Adrenomedullin Production by Mechanical Stretching in Cultured Rat Cardiomyocytes, 1210

**Receptors, angiotensin II**
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
Angiotensin Type 2 Receptor Mediates Valsartan-Induced Hypotension in Conscious Rats, 1074
Downregulation of Angiotensin II Type 1 Receptor by All-*trans* *Retinoic Acid* in Vascular Smooth Muscle Cells, 297
Functional Importance of Angiotensin-Converting Enzyme–Dependent In Situ Angiotensin II Generation in the Human Forearm, 764
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985

Regulation of Sodium Balance and Blood Pressure by the $AT_{1A}$ Receptor for Angiotensin II, 550
Release of Angiotensin-(1-7) From the Rat Hindlimb: Influence of Angiotensin-Converting Enzyme Inhibition, 348
Role of the Angiotensin Type 2 Receptor in the Regulation of Blood Pressure and Renal Function, 155

**Receptors, bradykinin**
Antagonist-Induced Intracellular Sequestration of Rabbit Bradykinin $B_2$ Receptor, 1319

**Receptors, endothelin**
Endothelin-Mediated Calcium Signaling in Preglomerular Smooth Muscle Cells, 280
Interactions Between Nitric Oxide and Endothelin in the Regulation of Vascular Tone of Human Resistance Vessels In Vivo, 1237
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732

**Receptors, imidazoline**
Atrial Natriuretic Peptide Is Involved in Renal Actions of Moxonidine, 1215

**Reflex**
Integration of Aortic Nerve Inputs in Hypertensive Rats, 430

**Relaxation**
Metformin Improves Vascular Function in Insulin-Resistant Rats, 108

**Remodeling**
Angiotensin II and $\alpha_v\beta_3$ Integrin Expression in Rat Neonatal Cardiac Fibroblasts, 978
Cellular Hypertrophy in Subcutaneous Small Arteries of Patients With Renovascular Hypertension, 931
Cyclic AMP Inhibited Proliferation of Human Aortic Vascular Smooth Muscle Cells, Accompanied by Induction of p53 and p21, 237
Effect of Lovastatin on Cerebral Circulation in Spontaneously Hypertensive Rats, 1105
Endothelin-1 Attenuates $\omega$3 Fatty Acid–Induced Apoptosis by Inhibition of Caspase 3, 287
Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221

**Renal blood flow**
Glomerular Hyperfiltration in Hypertensive African Americans, 822
Subpressor Doses of Angiotensin II Increase Plasma $F_2$-Isoprostanes in Rats, 476

**Renal circulation**
Effects of Renal Medullary and Intravenous Norepinephrine on Renal Antihypertensive Function, 965

**Renal disease**
Human Na+/H+ Exchanger Genes: Identification of Polymorphisms by Radiation Hybrid Mapping and. Analysis of Linkage in End-Stage Renal Disease, 135

**Renal function**
Glomerular Hyperfiltration, High Renin, and Low-Extracellular Volume in High Blood Pressure, 952

**Renal hemodynamics**
Cytochrome P450 and Cyclooxygenase Metabolites Contribute to the Endothelin-1 Afferent Arteriolar Vasoconstrictor and Calcium Responses, 307

**Renin**
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183
Angiotensinogen Concentrations and Renin Clearance: Implications for Blood Pressure Regulation, 780
Blood Pressure–Independent Effects in Rats With Human Renin and Angiotensinogen Genes, 587
Development of Hypertension in a Rat Model of Diet-Induced Obesity, 1009
Editorial Commentary: On the Biological Actions of Intracellular Angiotensin, 1189
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827
Glomerular Hyperfiltration, High Renin, and Low-Extracellular Volume in High Blood Pressure, 952
Hydrolysis by Cathepsin B of Fluorescent Peptides Derived From Human Prorenin, 1278
Increased Cardiac Angiotensin II Levels Induce Right and Left Ventricular Hypertrophy in Normotensive Mice, 985

**Renin-angiotensin-aldosterone system**
Cellular Hypertrophy in Subcutaneous Small Arteries of Patients With Renovascular Hypertension, 931

**Renin-angiotensin system**
Aldosterone Stimulation by Angiotensin II: Influence of Gender, Plasma Renin, and Familial Resemblance, 710
The Brain Renin-Angiotensin System Modulates Angiotensin II–Induced Hypertension and Cardiac Hypertrophy, 409
Gender Differences in Development of Hypertension in Spontaneously Hypertensive Rats: Role of the Renin-Angiotensin System, 480
Glucocorticoid-Remediable Aldosteronism and Pregnancy, 668
Increased Chymase Activity in Internal Thoracic Artery of Patients With Hypercholesterolemia, 55
$Lys^{173}Arg$ and −344T/C Variants of *CYP11B2* in Japanese Patients With Low-Renin Hypertension, 699
New $\beta$-Blocker: Prolonged Reduction in High Blood Pressure With $\beta_1$ Antisense Oligodeoxynucleotides, 219
Physiology and Pathophysiology of the Adipose Tissue Renin-Angiotensin System, 1270
Role of FMRFamide-Activated Brain Sodium Channel in Salt-Sensitive Hypertension, 443

**Renovascular responsiveness**
Angiotensin I–Converting Enzyme Antisense Gene Therapy Causes Permanent Antihypertensive Effects in the SHR, 202

**Restenosis**
Cyclic AMP Inhibited Proliferation of Human Aortic Vascular Smooth Muscle Cells, Accompanied by Induction of p53 and p21, 237

**Risk factors**
Angiotensin II Type 1 Receptor A1166C Gene Polymorphism Is Associated With an Increased Response to Angiotensin II in Human Arteries, 717
Association of Insulin Resistance With Salt Sensitivity and Nocturnal Fall of Blood Pressure, 864
Hypertension Incidence Is Predicted by High Levels of Hopelessness in Finnish Men, 561
Long-Term Absolute Benefit of Lowering Blood Pressure in Hypertensive Patients According to the JNC VI Risk Stratification, 539
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
Platelet-Derived Nitric Oxide and Coronary Risk Factors, 904

**RNA**
Inversion of the Intracellular $Na^+/K^+$ Ratio Blocks Apoptosis in Vascular Smooth Muscle Cells by Induction of RNA Synthesis, 1062
Nitric Oxide Synthase Activity and Isoforms in Rat Renal Vasculature, 337

**ROMK**
A Genome-Wide Search For Susceptibility Loci to Human Essential Hypertension, 1291

S

***S*-Methyl-L-thiocitrulline**
Effects of Systemic Inhibition of Neuronal Nitric Oxide Synthase in Diabetic Rats, 655

**Salt sensitivity**
Role of Female Sex Hormones in the Development and Reversal of Dahl Hypertension, 484

**Sex chromosomes**
Contribution of Autosomal Loci and the Y Chromosome to the Stress Response in Rats, 568

**Signal transduction**
Angiotensin II and the Heart: On the Intracrine Renin-Angiotensin System, 1183

**Sleep deprivation**
Effects of Sleep Deprivation on Neural Circulatory Control, 1173

**Social economic status**
Socioeconomic Status and Blood Pressure Reactivity in Healthy Black Adolescents, 496

**Sociodemographic factors**
Prevalence, Treatment, and Control of Hypertension by Sociodemographic Factors Among the Dutch Elderly, 814

**Socioeconomic factors**
Editorial Commentary: Hypertension in the Political Arena, 1179

**Sodium**
Age-Related Changes in Renal Cyclic Nucleotides and Eicosanoids in Response to Sodium Intake, 643
Effect of Salt on Insulin Sensitivity Differs According to Gender and Degree of Salt Sensitivity, 827
Inversion of the Intracellular $Na^+/K^+$ Ratio Blocks Apoptosis in Vascular Smooth Muscle Cells by Induction of RNA Synthesis, 1062
National Heart, Lung, and Blood Institute Workshop on Sodium and Blood Pressure: A Critical Review of Current Scientific Evidence, 858
Role of Citrate Synthase in Aldosterone-Mediated Sodium Reabsorption, 875
Role of the Angiotensin Type 2 Receptor in the Regulation of Blood Pressure and Renal Function, 155
**Sodium-hydrogen antiporter**
Role of 11$\beta$-Hydroxysteroid Dehydrogenase in Nongenomic Aldosterone Effects in Human Arteries, 1099
**Sodium sensitivity**
Sodium Sensitivity of Blood Pressure in Long-Term Detoxified Alcoholics, 869
**Sodium, dietary**
Association of Insulin Resistance With Salt Sensitivity and Nocturnal Fall of Blood Pressure, 864
High- or Low-Salt Diet From Weaning to Adulthood: Effect on Insulin Sensitivity in Wistar Rats, 424
**Spectral analysis**
Mental Stress–Induced Increase in Blood Pressure Is Not Related to Baroreflex Sensitivity in Middle-Aged Healthy Men, 887
**SR 49059**
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602
**STAT pathway**
Cardiotrophin-1 Increases Angiotensinogen mRNA in Rat Cardiac Myocytes Through STAT3: An Autocrine Loop for Hypertrophy, 1191
**Stenosis aortic**
Comparison of Hearts With 2 Types of Pressure-Overload Left Ventricular Hypertrophy, 1167
**Stress**
Contribution of Autosomal Loci and the Y Chromosome to the Stress Response in Rats, 568
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722
Restraint Stress: Differential Cardiovascular Responses in Wistar-Kyoto and Spontaneously Hypertensive Rats, 126
**Stress, mechanical**
Endothelin-Dependent and -Independent Components of Strain-Activated Brain Natriuretic Peptide Gene Transcription Require Extracellular Signal Regulated Kinase and p38 Mitogen-Activated Protein Kinase, 188
**Stress, mental**
Mental Stress–Induced Increase in Blood Pressure Is Not Related to Baroreflex Sensitivity in Middle-Aged Healthy Men, 887
**Stress, oxidative**
Subpressor Doses of Angiotensin II Increase Plasma $F_2$-Isoprostanes in Rats, 476
**Stroke**
Genes and Hypertension: From Gene Mapping in Experimental Models to Vascular Gene Transfer Strategies, 164
Hypokalemia Associated With Diuretic Use and Cardiovascular Events in the Systolic Hypertension in the Elderly Program, 1025
Nitric Oxide Deficiency Contributes to Large Cerebral Infarct Size, 1111
Prognostic Value of Ambulatory Blood Pressure: Current Evidence and Clinical Implications, 844
**Substrate, fluorogenic**
Hydrolysis by Cathepsin B of Fluorescent Peptides Derived From Human Prorenin, 1278
**Superoxide**
Pharmacological Concentrations of Ascorbic Acid Are Required for the Beneficial Effect on Endothelial Vasomotor Function in Hypertension, 936
Pranidipine Enhances the Action of Nitric Oxide Released From Endothelial Cells, 82
Vascular NADH/NADPH Oxidase Is Involved in Enhanced Superoxide Production in Spontaneously Hypertensive Rats, 1055
**Sympathetic nervous system**
Acute Suppression of Muscle Sympathetic Nerve Activity by Hydrocortisone in Humans, 758
Chronic $I_1$-Imidazoline Agonism: Sympathetic Mechanisms in Hypertension, 1264
Effects of Sleep Deprivation on Neural Circulatory Control, 1173
Overweight and Hypertension: A 2-Way Street? 807
Sympathoinhibition by Central and Peripheral Infusion of Nifedipine in Spontaneously Hypertensive Rats, 631
Weight Gain–Induced Blood Pressure Elevation, 1135

## T

**Tachycardia**
Restraint Stress: Differential Cardiovascular Responses in Wistar-Kyoto and Spontaneously Hypertensive Rats, 126
**Testosterone**
Gender Differences in Development of Hypertension in Spontaneously Hypertensive Rats: Role of the Renin-Angiotensin System, 480
**Tetraethylammonium chloride**
Bradykinin-Induced Vasodilation of Human Forearm Resistance Vessels Is Primarily Mediated by Endothelium-Dependent Hyperpolarization, 1314
**Thirst**
Synergistic Effects of $AT_1$ and $ET_A$ Receptor Blockade in a Transgenic, Angiotensin II–Dependent, Rat Model, 992
**Tissue inhibitor of metalloproteinases**
Chronic $AT_1$ Blockade Stimulates Extracellular Collagen Type I Degradation and Reverses Myocardial Fibrosis in Spontaneously Hypertensive Rats, 1197
**Total peripheral resistance**
Vascular Response to Angiotensin II in Atherosclerosis: Role of the Baroreflex, 685
**Twins**
$\beta$-2 Adrenergic Receptor Gene Variations, Blood Pressure, and Heart Size in Normal Twins, 555
Heritability of Central Systolic Pressure Augmentation: A Twin Study, 574

## U

**Urine**
Angiotensin I–Converting Enzyme Isoforms (High and Low Molecular Weight) in Urine of Premature and Full-Term Infants, 1284

## V

**Vagal tone**
Effects of Work Stress on Ambulatory Blood Pressure, Heart Rate and Heart Rate Variability, 880
**Valsartan**
Angiotensin Type 2 Receptor Mediates Valsartan-Induced Hypotension in Conscious Rats, 1074
**Vascular diseases**
Microalbuminuria and Pulse Pressure in Hypertensive and Atherosclerotic Men, 48
**Vascular remodeling**
$A_{2B}$ Receptors Mediate Antimitogenesis in Vascular Smooth Muscle Cells, 267
Estradiol Inhibits Smooth Muscle Cell Growth in Part by Activating the cAMP-Adenosine Pathway, 262
**Vascular resistance**
Cellular Hypertrophy in Subcutaneous Small Arteries of Patients With Renovascular Hypertension, 931
Effects of Sleep Deprivation on Neural Circulatory Control, 1173
Ion Channels and Vascular Tone, 173
**Vascular tone**
Interactions Between Nitric Oxide and Endothelin in the Regulation of Vascular Tone of Human Resistance Vessels In Vivo, 1237
**Vasculature**
Aging Increases PGHS-2–Dependent Vasoconstriction in Rat Mesenteric Arteries, 1242

Vasopeptidase Inhibition Has Potent Effects on Blood Pressure and Resistance Arteries in Stroke-Prone Spontaneously Hypertensive Rats, 1221

**Vasoconstriction**
Amlodipine, Enalapril, and Dependent Leg Edema in Essential Hypertension, 621
Ion Channels and Vascular Tone, 173
Obesity Is Associated With Tissue-Specific Activation of Renal Angiotensin-Converting Enzyme In Vivo: Evidence for a Regulatory Role of Endothelin, 329
Vascular Response to Angiotensin II in Atherosclerosis: Role of the Baroreflex, 685

**Vasodilation**
Atrial Natriuretic Peptide Modifies Arterial Blood Pressure Through Nitric Oxide Pathway in Rats, 1119
Dissociation Between Neural and Vascular Responses to Sympathetic Stimulation: Contribution of Local Adrenergic Receptor Function, 76
Inhibition of cADP-Ribose Formation Produces Vasodilation in Bovine Coronary Arteries, 397

**Vasodilator agents**
Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice: Role of Soluble Guanylyl Cyclase, 231

**Vasopressins**
Interaction Between Nitric Oxide and Mineralocorticoids in the Long-Term Control of Blood Pressure, 752
Nitric Oxide in the Renal Medulla Protects From Vasopressin-Induced Hypertension, 740
p38 MAP Kinase Is Required for Vasopressin-Stimulated HSP27 Induction in Aortic Smooth Muscle Cells, 673
Vasopressin Does not Effect Hypertension Caused by Long-Term Nitric Oxide Inhibition, 602

**Veins**
Antagonist-Induced Intracellular Sequestration of Rabbit Bradykinin $B_2$ Receptor, 1319
Mechanisms of Increased Venous Smooth Muscle Tone in Desoxycorticosterone Acetate-Salt Hypertension, 464

**Verapamil**
Mechanisms of Big Endothelin-1–Induced Diuresis and Natriuresis: Role of $ET_B$ Receptors, 732

**Viral delivery**
Angiotensin I–Converting Enzyme Antisense Gene Therapy Causes Permanent Antihypertensive Effects in the SHR, 202

**Vitamins**
Relation Between Low Calcium Intake, Parathyroid Hormone, and Blood Pressure, 1154

W

**Weight loss**
Long-Term Effects of Weight Loss and Dietary Sodium Reduction on Incidence of Hypertension, 544

Y

**Young adults**
Racial Differences in Endothelin-1 at Rest and in Response to Acute Stress in Adolescent Males, 722

Z

**Zona glomerulosa**
Inhibition of Adrenal Cell Aldosterone Synthesis by Endogenous Nitric Oxide Release, 324